

A large, dark blue silhouette of a human brain is centered on the page. The brain is surrounded by a network of glowing white and light blue circuit lines and nodes, suggesting a connection between biology and technology. The background is a gradient of purple, blue, and green.

# CUSABIO ELISA KITS FOR NEUROSCIENCE



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**N**euroscience is the study of the nervous system - one of the major mammalian systems responsible for sustaining life. The central nervous system (CNS) and peripheral nervous system (PNS) work in concert to coordinate basic functions such as moving and breathing, as well as 'higher order' functions including thought, speech and emotion.



### Biological rhythms

Biological rhythm, periodic biological fluctuation in an organism that corresponds to, and is in response to periodic environmental change. Component of the circadian clock mechanism which is essential for generating circadian rhythms.

Product Name	Code	Standard Range	Sensitivity
Human Serotonin N-acetyltransferase(AANAT) ELISA kit	CSB-EL001022HU	31.25 pg/ml-2000 pg/ml	7.81 pg/ml
Rat Aryl hydrocarbon receptor nuclear translocator-like protein 1(ARNTL) ELISA kit	CSB-EL002123RA	0.312 ng/ml-20 ng/ml	0.08 ng/ml
Rat Period circadian protein homolog 2(PER2) ELISA kit	CSB-EL017787RA	0.156 ng/ml-10 ng/ml	0.04 ng/ml
Human Prokineticin-2(PROK2) ELISA kit	CSB-EL018747HU	6.25 pg/ml-400 pg/ml	1.56 pg/ml
Mouse Prokineticin-2(PROK2) ELISA kit	CSB-EL018747MO	12.5 pg/ml-800 pg/ml	3.1 pg/ml
Rat Prokineticin-2(PROK2) ELISA kit	CSB-EL018747RA	0.5 pg/ml-100 pg/ml	0.25 pg/ml

### Neurogenesis

Neurogenesis is the process by which neurons are generated from neural stem and progenitor cells. Most active during pre-natal development, neurogenesis is responsible for populating the growing brain with neurons.

Product Name	Code	Standard Range	Sensitivity
Human AT-rich interactive domain-containing protein 1A(ARID1A) ELISA Kit	CSB-E13529h	23.5 pg/ml-1500 pg/ml	5.8 pg/ml
Mouse N-chimaerin(CHN1) ELISA kit	CSB-EL005368MO	6.25 pg/ml-400 pg/ml	1.56 pg/ml
Human Huntingtin(HTT) ELISA kit	CSB-EL010905HU	12.5 pg/ml-800 pg/ml	3.125 pg/ml
Rat Huntingtin(HTT) ELISA kit	CSB-EL010905RA	28.12 pg/ml-1800 pg/ml	7.03 pg/ml
Human Nestin(NES) ELISA kit	CSB-EL015713HU	23.44 pg/ml-1500 pg/ml	5.86 pg/ml
Human Nestin(NES) ELISA kit	CSB-EL015713HU	23.44 pg/ml-1500 pg/ml	5.86 pg/ml
Human Reticulon-4(RTN4) ELISA kit	CSB-EL020572HU	46.88 pg/ml-3000 pg/ml	11.7 pg/ml

### Stress response

Stress is a person's response to a stressor such as an environmental condition or a stimulus. According to the stressful event, the body's way to respond to stress is by sympathetic nervous system activation which results in the fight-or-flight response.

Product Name	Code	Standard Range	Sensitivity
Human Heat Shock Protein 70,HSP-70 ELISA Kit	CSB-E08297h	1.56 ng/ml-100 ng/ml	0.39 ng/ml
Rat heat shock protein 70,hSP-70 ELISA Kit	CSB-E08308r	62.5 pg/ml-4000 pg/ml	15.6 pg/ml
Rat Heat shock protein HSP 90-alpha (Hsp90aa1/Hsp86/Hspca) ELISA kit	CSB-E08309r	62.5 pg/ml-4000 pg/ml	15.6 pg/ml
Mouse Heat Shock Protein 90,Hsp-90 ELISA Kit	CSB-E08312m	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Human heat shock protein 27,HSP-27 ELISA Kit	CSB-E09239h	1.25 ng/ml-80 ng/ml	0.312 ng/ml
Rat heat shock protein 27,HSP-27 ELISA Kit	CSB-E09240r	0.78 ng/ml-50 ng/ml	0.195 ng/ml
Mouse heat shock protein 27,HSP-27 ELISA Kit	CSB-E09241m	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Human chaperonin 10,CNP10 ELISA Kit	CSB-E09917h	0.156 ng/ml -10 ng/ml	0.04 ng/ml
Rat heat shock protein,HSP47 ELISA Kit	CSB-E11328r	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Chicken Heat Shock Protein 90,HSP-90 ELISA Kit	CSB-E12873C	1.56 ng/ml-100 ng/ml	0.39 ng/ml
Chicken Heat Shock Protein 27,HSP-27 ELISA Kit	CSB-E12879C	0.078 ng/ml-20 ng/ml	0.078ng/ml
Goat Heat Shock Protein 70(HSP-70) ELISA KIT	CSB-E13381G	23.44 ng/ml-1500 ng/ml	5.86 ng/ml
Human heat shock protein 90α (HSP-90α) ELISA kit	CSB-E13462h	0.78 ng/ml-50 ng/ml	0.195 ng/ml
Bovine Heat Shock Protein 72 (HSP-72) ELISA Kit	CSB-E15831B	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Mouse Activator of 90 kDa heat shock protein ATPase homolog 1(AHSA1) ELISA kit	CSB-EL001483MO	28 pg/ml-1800 pg/ml	7 pg/ml
Human Heat shock factor protein 2(HSF2) ELISA kit	CSB-EL010792HU	0.45 ng/ml-30 ng/ml	0.11 ng/ml
Pig Heat shock protein HSP 90-alpha(HSP90AA1) ELISA kit	CSB-EL010802PI	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Mouse Heat shock protein HSP 90-beta(HSP90AB1) ELISA kit	CSB-EL010808MO	15.6 pg/ml-1000 pg/ml	3.9 pg/ml
Mouse Heat shock 70 kDa protein 1B(HSPA1B) ELISA kit	CSB-EL010822MO	0.94 ng/ml-60 ng/ml	0.24 ng/ml
Dog Heat shock 70 kDa protein 4(HSPA4) ELISA kit	CSB-EL010825DO	125 pg/ml-8000 pg/ml	31.2 pg/ml
Human Heat shock 70 kDa protein 4L(HSPA4L) ELISA kit	CSB-EL010826HU	0.625 ng/ml-40 ng/ml	0.156 ng/ml
Human Putative heat shock 70 kDa protein 7(HSPA7) ELISA kit	CSB-EL010828HU	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Mouse Heat shock cognate 71 kDa protein(HSPA8) ELISA kit	CSB-EL010829MO	9.4 pg/ml-600 pg/ml	2.35 pg/ml
Bovine Heat shock protein beta-1(HSPB1) ELISA kit	CSB-EL010833BO	0.235 ng/ml-15 ng/ml	0.058 ng/ml
Human Heat shock protein beta-11(HSPB11) ELISA kit	CSB-EL010834HU	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Human Heat shock protein beta-2(HSPB2) ELISA kit	CSB-EL010835HU	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Human Heat shock protein beta-3(HSPB3) ELISA kit	CSB-EL010836HU	0.78 ng/ml-50 ng/ml	0.195 ng/ml
Human Heat shock protein beta-6(HSPB6) ELISA kit	CSB-EL010837HU	93.75 pg/ml-6000 pg/ml	23.43 pg/ml
Human Heat shock protein beta-7(HSPB7) ELISA kit	CSB-EL010838HU	0.45 ng/ml-30 ng/ml	0.11 ng/ml
Mouse Hypoxia up-regulated protein 1(HYOU1) ELISA kit	CSB-EL010929MO	25 pg/ml-1600 pg/ml	6.25 pg/ml

### Neurotransmitter

Neurotransmitters are endogenous chemicals that transmit signals from a neuron to a target cell across a synapse. Neurotransmitters are packaged into synaptic vesicles clustered beneath the membrane in the axon terminal, on the presynaptic side of a synapse. Elisa kits we provide are closely related to the process of biosynthesis, degradation and transport for Neurotransmitter.

Product Name	Code	Standard Range	Sensitivity
Human glutamic acid decarboxylase,GAD ELISA Kit	CSB-E09199h	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Human glutamic acid decarboxylase 65,GAD65 ELISA Kit	CSB-E14119h	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Human choline acetyltransferase(ChAT)ELISA Kit	CSB-E17522h	15.6 pg/ml-1000 pg/ml	3.9 pg/ml
Rat choline acetyltransferase(ChAT)ELISA Kit	CSB-E17523r	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Mouse Glutamate decarboxylase 1(GAD1) ELISA kit	CSB-EL009159MO	6.25 pg/ml-400 pg/ml	1.56 pg/ml
Rat Glutamate decarboxylase 1(GAD1) ELISA kit	CSB-EL009159RA	15.6 pg/ml-1000 pg/ml	3.9 pg/ml
Rat Glutamate decarboxylase 2(GAD2) ELISA kit	CSB-EL009160RA	4.68 pg/ml-300 pg/ml	1.17 pg/ml
Human Acetylcholinesterase,AChE ELISA Kit	CSB-E09670h	0.94 mU/ml-60 mU/ml	0.24 mU/ml
Rat Acetylcholinesterase,AChE ELISA Kit	CSB-E11304r	7.8pg/ml-500 pg/ml	1.95 pg/ml
Fish Acetylcholinesterase(AChE)ELISA Kit	CSB-E17001Fh	2.5 ng/ml-40 ng/ml	1.25 ng/ml
Mouse Acetylcholinesterase(AChE)ELISA Kit	CSB-E17521m	0.312 mU/ml-20 mU/ml	0.078 mU/ml
Human Acetylcholinesterase collagenic tail peptide(COLO) ELISA kit	CSB-EL005767HU	28.12 pg/ml-1800 pg/ml	7.03 pg/ml
Mouse Proline-rich membrane anchor 1(PRIMA1) ELISA kit	CSB-EL018682MO	6.25 pg/ml-400 pg/ml	1.56 pg/ml
Human N-terminal pro-brain natriuretic peptide,NT-proBNP ELISA KIT	CSB-E05152h	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Mouse N-terminal pro-brain natriuretic peptide,NT-proBNP ELISA KIT	CSB-E05153m	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Rat N-terminal pro-brain natriuretic peptide,NT-proBNP ELISA KIT	CSB-E08752r	7.8 pg/ml-500 pg/ml	1.95 pg/ml
Monkey N-terminal pro-brain natriuretic peptide,NT-proBNP ELISA KIT	CSB-E14327Mk	0.78 ng/ml-50 ng/ml	0.195 ng/ml
Canine N-terminal pro-brain natriuretic peptide(NT-proBNP)ELISA Kit	CSB-E17577c	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Rat serotonin transporter(5-HTT/SERT)ELISA Kit	CSB-E13985r	31.25 pg/ml-2000 pg/ml	7.8 pg/ml
Mouse Vesicular acetylcholine transporter(SLC18A3) ELISA kit	CSB-EL021428MO	23.44 pg/ml-1500 pg/ml	5.86 pg/ml
Mouse Vesicular inhibitory amino acid transporter(SLC32A1) ELISA kit	CSB-EL021578MO	7.81 pg/ml-500 pg/ml	1.95 pg/ml
Human Syntaxin-1B(STX1B) ELISA kit	CSB-EL022896HU	40 pg/ml-1400 pg/ml	20 pg/ml
Human Syntaxin-4(STX4) ELISA kit	CSB-EL022900HU	25 pg/ml-1600 pg/ml	6.25 pg/ml
Human Metabotropic glutamate receptor 7(GRM7) ELISA kit	CSB-EL009937HU	28 pg/ml-1800 pg/ml	7 pg/ml
Human tryptophan hydroxylase (TPH) ELISA Kit	CSB-E13596h	34.4 pg/ml-2200 pg/ml	8.6 pg/ml
Rat Tryptophan Hydroxylase (TPH) ELISA Kit	CSB-E13984r	37.5 pg/ml-2400 pg/ml	9.4 pg/ml
Mouse Tryptophan 5-hydroxylase 2(TPH2) ELISA kit	CSB-EL024101MO	3.12 pg/ml-200 pg/ml	0.78 pg/ml

### Sensory transduction

In physiology, sensory transduction is the conversion of a sensory stimulus from one form to another. Transduction in the nervous system typically refers to stimulus alerting events wherein a physical stimulus is converted into an action potential, which is transmitted along axons towards the central nervous system where it is integrated.

Product Name	Code	Standard Range	Sensitivity
Human Aquaporin 0,AQP-0 ELISA Kit	CSB-E08245h	31.2 pg/ml-2000 pg/ml	7.8 pg/ml
Human Retinol binding protein 4,RBP-4 ELISA Kit	CSB-E09423h	0.25 µg/ml-100 µg/ml	0.1 µg/ml
Human Alpha-crystallin A chain(CRYAA) ELISA kit	CSB-EL006007HU	31.2 pg/ml-2000 pg/ml	7.8 pg/ml
Human Lecithin retinol acyltransferase(LRAT) ELISA kit	CSB-EL013069HU	25 pg/ml-1600 pg/ml	6.25 pg/ml
Human Nyctalopin(NYX) ELISA kit	CSB-EL016237HU	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Human Short-wave-sensitive opsin 1(OPN1SW) ELISA kit	CSB-EL016354HU	31.25 pg/ml-2000 pg/ml	7.8 pg/ml
Mouse Phosducin(PDC) ELISA kit	CSB-EL017663MO	3.12 pg/ml-200 pg/ml	0.78 pg/ml
Human Rhodopsin(RHO) ELISA kit	CSB-EL019681HU	12.5 pg/ml-800 pg/ml	3.12 pg/ml
Human X-linked retinitis pigmentosa GTPase regulator-interacting protein 1(RPGRIP1) ELISA kit	CSB-EL020100HU	4.68 pg/ml-300 pg/ml	1.17pg/ml
Human R-spondin-1(RSPO1) ELISA kit	CSB-EL020550HU	62.5 pg/ml-4000 pg/ml	15.6 pg/ml
Mouse R-spondin-1(RSPO1) ELISA kit	CSB-EL020550MO	6.25 pg/ml-400 pg/ml	1.56 pg/ml
Human R-spondin-2(RSPO2) ELISA kit	CSB-EL020551HU	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Mouse R-spondin-2(RSPO2) ELISA kit	CSB-EL020551MO	31.25 pg/ml-2000 pg/ml	7.8 pg/ml
Mouse R-spondin-3(RSPO3) ELISA kit	CSB-EL020552MO	4.7 pg/ml-300 pg/ml	1.17 pg/ml
Mouse R-spondin-4(RSPO4) ELISA kit	CSB-EL020553MO	34.4 pg/ml-2200 pg/ml	8.6 pg/ml

### Nervous system dysfunction

Neurological disorders can affect the central, somatic and autonomic nervous system. At the molecular level, many analytes have been found to be involved in the pathophysiology of this complex interacting system. Proteins such as BDNF and GFAP are considered to be linked to Alzheimer's disease and MS.

Product Name	Code	Standard Range	Sensitivity
Human Brain derived neurotrophic factor,BDNF ELISA Kit	CSB-E04501h	0.312 ng/ml -20 ng/ml	0.078 ng/ml
Rat Brain derived neurotrophic factor,BDNF ELISA Kit	CSB-E04504r	31.25 pg/ml-2000 pg/ml	7.81 pg/ml
Mouse Brain derived neurotrophic factor,BDNF ELISA Kit	CSB-E04505m	15.6 pg/ml-1000 pg/ml	3.9 pg/ml
Chicken gliial fibrillary acidic protein,GFAP ELISA Kit	CSB-E04615Ch	31.25 pg/ml-2000 pg/ml	7.8 pg/ml
Human gliial fibrillary acidic protein,GFAP ELISA Kit	CSB-E08601r	0.625 ng/ml-40 ng/ml	0.156 ng/ml
Rat gliial fibrillary acidic protein,GFAP ELISA Kit	CSB-E08602r	78 pg/ml-5000 pg/ml	19.5 pg/ml
Mouse gliial fibrillary acidic protein,GFAP ELISA Kit	CSB-E08603m	3.12 pg/ml-200 pg/ml	0.78 pg/ml
Rat B-cell CLL/lymphoma 2 (BCL2) ELISA kit	CSB-E08854r	0.312 ng/ml-20 ng/ml.	0.078 ng/ml
Human β-site APP-Cleaving Enzyme 1, BACE1 ELISA kit	CSB-E09824h	3.12 pg/ml-200 pg/ml	0.78pg/ml
Human Dickkopf 1,DKK1 ELISA Kit	CSB-E10104h	62.5 pg/ml-4000pg/ml	15.6pg/ml
Human beta-site APP-cleaving enzyme 2,BACE2 ELISA Kit	CSB-E11867h	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Pig gliial fibrillary acidic protein,GFAP ELISA Kit	CSB-E14950p	0.1 ng/ml-20 ng/ml	0.05 ng/ml
Human synuclein, alpha (non A4 component of amyloid precursor) oligomer (SNCA oligomer) ELISA kit	CSB-E18033h	0.312 ng/ml-20 ng/ml	0.078 ng/ml
Cat Brain-derived neurotrophic factor(BDNF) ELISA kit	CSB-EL002655CA	6.25 ng/ml-100 ng/ml	6.25 ng/ml
Pig Brain-derived neurotrophic factor(BDNF) ELISA kit	CSB-EL002655PI	9.375 ng/ml-600 ng/ml	2.35 ng/ml
Monkey Brain-derived neurotrophic factor(BDNF) ELISA kit	CSB-EL002655RH	0.78 ng/ml-50 ng/ml	0.195 ng/ml
Rat Alpha-synuclein(SNCA) ELISA kit	CSB-EL021912RA	0.625 ng/ml-40 ng/ml	0.156 ng/ml
Human Protein Wnt-3a(WNT3A) ELISA kit	CSB-EL026136HU	0.156 ng/ml-10 ng/ml	0.039 ng/ml
Mouse Protein Wnt-3a(WNT3A) ELISA kit	CSB-EL026136MO	23.5 pg/ml-1500 pg/ml	5.8 pg/ml