Neuroglobin (NGB) ELISA Kit for Cat

PRODUCT OVERVIEW

Product Name	Neuroglobin (NGB), ELISA Kit
Full Product Name	Cat Neuroglobin ELISA Kit
Product Gene Name	NGB elisa kit
Species Reactivity	Cat
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	16,933 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (77731834..77737655, complement). Location: 14q24.3
OMIM	605304
3D Structure	ModBase 3D Structure for Q9NPG2
Related Product Information for NGB elisa kit	MBS096408 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Neuroglobin (NGB) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing NGB. The ELISA analytical biochemical technique of the MBS096408 kit is based on NGB antibody-NGB antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect NGB antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, NGB. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of NGB elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NGB. It may not necessarily be applicable to this product.

NCBI GI #	10864065
NCBI GeneID	58157
NCBI Accession #	NP_067080.1
UniProt Primary Accession #	Q9NPG2
UniProt Related Accession #	Q9NPG2
GenBank Nucleotide #	NM_021257.3
NCBI Official Full Name	neuroglobin
NCBI Official Synonym Full Names	neuroglobin
NCBI Official Symbol	NGB
UniProt Protein Name	Neuroglobin
Protein Family	Neuroglobin
UniProt Gene Name	NGB
UniProt Entry Name	NGB_HUMAN

NCBI Protein Information	neuroglobin
NCBI Summary for NGB	This gene encodes an oxygen-binding protein that is distantly related to members of the globin gene family. It is highly conserved among other vertebrates. It is expressed in the central and peripheral nervous system where it may be involved in increasing oxygen availability and providing protection under hypoxic/ischemic conditions. [provided by RefSeq, Jul 2008]
UniProt Comments for NGB	NGB: Involved in oxygen transport in the brain. Hexacoordinate globin, displaying competitive binding of oxygen or the distal His residue to the iron atom. Not capable of penetrating cell membranes. The deoxygenated form exhibits nitrite reductase activity inhibiting cellular respiration via NO-binding to cytochrome c oxidase. Involved in neuroprotection during oxidative stress. May exert its anti-apoptotic activity by acting to reset the trigger level of mitochondrial cytochrome c release necessary to commit the cells to apoptosis. Belongs to the globin family. Chromosomal Location of Human Ortholog: 14q24.3 Cellular Component: mitochondrion; perikaryon Molecular Function: iron ion binding; heme binding; oxygen binding; oxygen transporter activity Biological Process: apoptosis; oxygen transport
Research Articles on NGB	**1.** functional impact of heme disorder and cysteine oxidation state on the properties of the Ngb ligand
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