

Human Neuroserpin ELISA Kit | SERPINI1 elisa kit

Neuroserpin (Human) OmniKine ELISA Kit

CATALOG #
AAA315844

REACTIVITY
Human

PRODUCT SYNONYMS

Neuroserpin; Neuroserpin (Human) OmniKine ELISA Kit; Serpin Family I Member; Serine (Or Cysteine) Proteinase Inhibitor; Clade I (Neuroserpin); Member 1; Serpin Peptidase Inhibitor; Peptidase Inhibitor 12; Serpin I1; PI-12; P12; Serpin Peptidase Inhibitor Clade I Member 1; SERPINI1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Form/Format	12 x 8-Well Microstrips
Sequence Length	410
Assay Type	Quantitative Sandwich
Preparation and Storage	Store entire kit at 4 degree C until use.

ADDITIONAL INFORMATION

Related Product Information for SERPINI1 elisa kit

Principle of the Assay: The OmniKine™ Human Neuroserpin ELISA Kit contains the components necessary for quantitative determination of natural or recombinant Human Neuroserpin concentrations within any experimental sample including cell lysates, serum and plasma. This particular immunoassay utilizes the quantitative technique of a "Sandwich" Enzyme-Linked Immunosorbent Assay (ELISA) where the target protein (antigen) is bound in a "sandwich" format by the primary capture antibodies coated to each well-bottom and the secondary detection antibodies added subsequently by the investigator. The capture antibodies coated to the bottom of each well are specific for a particular epitope on Human Neuroserpin while the user-added detection antibodies bind to epitopes on the captured target protein. Amid each step of the procedure, a series of wash steps must be performed to ensure the elimination of non-specific binding between proteins to other proteins or to the solid phase. After incubation and "sandwiching" of the target antigen, a peroxidase enzyme is conjugated to the constant heavy chain of the secondary antibody (either covalently or via Avidin/Streptavidin-Biotin interactions), allowing for a colorimetric reaction to ensue upon substrate addition. When the substrate TMB (3, 3', 5, 5'-Tetramethylbenzidine) is added, the reaction catalyzed by peroxidase yields a blue color that is representative of the antigen concentration. Upon sufficient color development, the reaction can be terminated through addition of Stop Solution (2 N Sulfuric Acid) where the color of the solution will turn yellow. The absorbance of each well can then be read by a spectrophotometer, allowing for generation of a standard curve and subsequent determination of protein concentration.

Background/Introduction: Human Neuroserpin is a member of the serpin superfamily of serine proteinase inhibitors and is encoded by the SERPINI1 gene. Found to be secreted by axons in the brain it is thought to play a role in regulation of axonal growth and development of synaptic plasticity.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170295807
NCBI GeneID	5274
NCBI Accession #	NP_001116224.1
NCBI GenBank Nucleotide #	NM_001122752.1
UniProt Accession #	Q99574 ; Q6AHZ4 ; A8K217 ; D3DNP1

Molecular Weight	46,427 Da
NCBI Official Full Name	neuroserpin
NCBI Official Synonym Full Names	serpin family I member 1
NCBI Official Symbol	SERPINI1
NCBI Official Synonym Symbols	PI12; neuroserpin
NCBI Protein Information	neuroserpin
UniProt Protein Name	Neuroserpin
UniProt Gene Name	SERPINI1
UniProt Synonym Gene Names	PI12; PI-12

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/serpini1-human-elisa-kits/neuroserpin/315844>