Human Neurogranin, Tag Free Protein HA211156



Product name:	Human Neurogranin, Tag Free									
Species reactivity:	Human									
Bio-Activity:	Testing in progress.									
Protein construction description:	A DNA sequence encoding the human Neurogranin protein (Q92686) (Met 1-Asp 78) was expressed with tag free.									
Background:	Neurogranin is a small neuronal protein that binds to calmodulin in the absence of Ca2+ . Calmodulin binds Ca2+ and acts as a Ca2+ sensor to drive Ca2+-dependent signal transduction pathways by modulating its interaction with various kinases and phosphatases. In the postsynaptic compartment of the neuron, Ca2+ is carefully regulated and is a critical regulator of synaptic function and plasticity . Neurogranin is primarily expressed in the brain and is enriched in somato-dendritic compartments of projection neurons in various regions of the brain. Postsynaptically-enriched neurogranin likely influences Ca2+ or Ca2+/calmodulin-dependent neuronal functions, including synaptic plasticity, by binding to and releasing calmodulin in a Ca2+-dependent manner. Genetic variants in the gene encoding neurogranin, NRGN, are linked to several neuropsychiatric diseases, including schizophrenia . Interestingly, increase in cerebrospinal fluid neurogranin is correlated with neurodegenerative disease progression, which suggests that neurogranin could act as a biomarker for diseases like Alzheimer's disease.									
Purity:	>90% as determined by SDS-PAGE.									
Endotoxin:	Less than 1.0 EU per μ g by the LAL method.									
Fragment region:	Neurogranin (1-78)									
Source:	HEK293									
Accession:	Q92686									
Predicted molecular mass:	8.4 kD									
Formulation:	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.									
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.									
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at - 20° to -80° . It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.									

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images



Fig1: Protein on SDS-PAGE under reducing (R) condition.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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