Human TNFRSF16,NGFR ELISA Kit

Catalog No: #EK5447

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Description

Product Name	Human TNFRSF16,NGFR ELISA Kit
Specificity	Human
Crossing Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen Type	sf21, K29-N250
Other Names	Tumor necrosis factor receptor superfamily member 16; Gp80-LNGFR; Low affinity neurotrophin receptor p75NTR; Low-affinity nerve growth factor receptor; NGF receptor; p75 ICD; CD271; NGFR; TNFRSF16;
Accession No.	P08138
Uniprot	P08138
GeneID	4804;
Cell Localization	Membrane; Single-pass type I membraneprotein.

Application Details

sensitivity:10pg mlDetect Range:62.5pg ml-4000pg mlsample_type:cell culture supernates serum and plasma(heparin EDTA citrate).capture_antibody:monoclonal antibody from mousedetection_antibody:polyclonal antibody from goatgene_name:NGFRprotein_name:Tumor necrosis factor receptor superfamily member 16gene_full_name:Tumor necrosis factor receptor superfamily member 16tissue_specificity:sequence_similarities:tmb_incubation:25-30minresearch_category:neuroscience|neurology process|growth and development|neurotrophins|stem cells|neural stem cells|surface molecules|mesenchymal stem cells

Product Description

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human TNFRSF16,NGFR

Background

protein_function: Plays a role in the regulation of the translocation ofGLUT4 to the cell surface in adipocytes and skeletal muscle cellsin response to insulin, probably by regulating RAB31 activity, andthereby contributes to the regulation of insulin-dependent glucoseuptake (By similarity). Low affinity receptor which can bind toNGF, BDNF, NT-3, and NT-4. Can mediate cell survival as well ascell death of neural cells. Necessary for the circadianoscillation of the clock genes ARNTL,BMAL1, PER1, PER2 and NR1D1in the suprachiasmatic nucleus (SCN) of the brain and in liver andof the genes involved in glucose and lipid metabolism in theliver..Nerve growth factor receptor (NGFR) is also referred to as p75(NTR) because of its ability to bind at low affinity not only to NGF, but also other neurotrophins including brain-derived neurotrophic factor (BDNF), neurotrophin-3 and neurotrophin-4,5. The nerve growth factor receptor gene is at human chromosome region 17q12-17q22, distal to the chromosome 17 breakpoint in acute leukemias. The neurotrophin receptor p75(NTR), a tumor necrosis factor receptor superfamily member expressed in hepatic stellate cells after fibrotic and cirrhotic liver injury in humans, is a regulator of liver repair. In mice, depletion of p75(NTR) exacerbated liver pathology and inhibited hepatocyte proliferation in vivo. In addition, it is showed that neurotrophins activate p75(NTR) to induce apoptosis through the induction of the sphingomyelin (SM) cycle and increased production of ceramide. Overexpression of p75(NTR) is also found to activate the SM pathway.

Note: This product is for in vitro research use only