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Neurotensin Receptor 1 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54703

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P30989
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46259
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human NTR1/Neurotensin Receptor 1
Epitope Specificity	188-290/418
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cell membrane; Multi-pass membrane protein.
SIMILARITY	Belongs to the G-protein coupled receptor 1 family. Neurotensin receptor subfamily. NTSR1 sub-subfamily.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Neurotensin (NT) initiates an intracellular response by interacting with the G protein-coupled receptors NTR1 (NTS1 receptor, high affinity NTR) and NTR2 (NTS2 receptor, levocabastine-sensitive Neurotensin receptor), and the type I receptor NTR3 (NTS3 receptor, sortilin-1, Gp95). Neurotensin has a wide distribution in regions of the brain and in peripheral tissues where Neuro-tensin receptors can contribute to hypotension, hyperglycemia, hypothermia, antinociception and regulation of intestinal motility and secretion. HL-60 cells express NTR1, which can couple to Gq, Gi/o, or Gs. Alternative splicing of rat NTR2 can generate a five-transmembrane domain variant isoform that is co-expressed with the full-length NTR2 throughout the brain and spinal cord. NTR3 activation in the murine microglial cell line N11 induces MIP-2, MCP-1, IL-1b and TNFa in an ERK1/2- and Akt kinase-dependent manner.

Additional Information

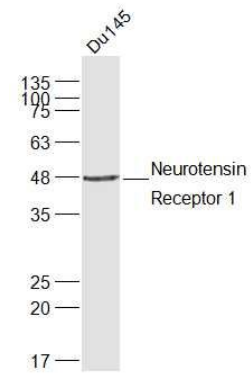
Gene ID	4923
Other Names	Neurotensin receptor type 1, NT-R-1, NTR1, High-affinity levocabastine-insensitive neurotensin receptor, NTRH, NTSR1, NTRR
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000

Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

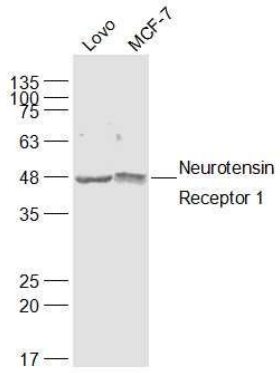
Protein Information

Name	NTSR1
Synonyms	NTRR
Function	G-protein coupled receptor for the tridecapeptide neurotensin (NTS) (PubMed:21725197, PubMed:23140271, PubMed:8381365). Signaling is effected via G proteins that activate a phosphatidylinositol-calcium second messenger system. Signaling leads to the activation of downstream MAP kinases and protects cells against apoptosis (PubMed:21725197).
Cellular Location	Cell membrane; Multi-pass membrane protein. Membrane raft. Note=Palmitoylation is required for localization at CAV1-enriched membrane rafts
Tissue Location	Expressed in prostate (at protein level). Detected in colon and peripheral blood mononuclear cells. Detected at very low levels in brain.

Images



Sample:
DU145(Human) Cell Lysate at 30 ug
Primary: Anti-Neurotensin Receptor 1 (AP54703) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 46 kD
Observed band size: 46 kD



Sample:
LOVO(Human) Cell Lysate at 30 ug
MCF-7(Human) Cell Lysate at 30 ug
Primary: Anti-Neurotensin Receptor 1 (AP54703) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 46 kD
Observed band size: 46 kD