abcam

ab27380

Anti-Neurotensin Receptor 1/NTSR1 antibody [B-N6]

Key facts

Isotype	IgM
Host species	Mouse
Storage buffer	pH: 7.3 - 7.5 Preservative: 0.09% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing NTSR1 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P30989
Clone number	B-N6
Specificity	Recognises the membrane protein.
Light chain type	kappa
Purification notes	Gel filtration

Reactivity data

Flow Cyt

Tested

Species	Transfected cell line
Dilution info	10 µL for 10^6 Cells
Notes	ab91545 - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.

Predicted

Species	Human
Dilution info	-
Notes	-

Target data

See full target information NTSR1

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).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Neurotensin Receptor 1 also known as NTSR1 functions as a G-protein coupled receptor (GPCR) that binds to the neuropeptide neurotensin. This protein consists of seven transmembrane domains typical of GPCRs and has a molecular mass of roughly 46 kDa. NTSR1 commonly expresses in the central nervous system particularly in the brain regions such as hypothalamus and basal ganglia and also in peripheral tissues like the gastrointestinal tract.

Biological function summary	NTSR1 influences signaling cascades that regulate various physiological processes. It forms part of a receptor-ligand complex with neurotensin a peptide that modulates neurotransmission and hormone regulation. Neurotensin and NTSR1 interaction can affect neurotransmitter release modulating pathways related to pain locomotion and thermoregulation. Researchers have observed significant roles of the receptor in neural proliferation as well.
Pathways	NTSR1 acts significantly in the dopaminergic and phosphatidylinositol signaling pathways. In the dopaminergic system NTSR1 interacts with dopamine D2 receptors influencing dopamine-mediated behaviors and responses. In phosphatidylinositol signaling it regulates downstream effectors like protein kinase C impacting cellular responses. These pathways integrate NTSR1 into broader signaling networks that control critical neuronal functions and responses.
Associated diseases and disorders	NTSR1 has connections to certain neurological and psychiatric disorders such as schizophrenia and Parkinson's disease. Abnormal NTSR1 signaling affects dopaminergic neurotransmission which highlights its role in these conditions. Altered interactions with proteins like the dopamine D2 receptor contribute to the pathological symptoms observed in these diseases. Research into NTSR1 and its pathways may reveal targets for therapeutic intervention.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

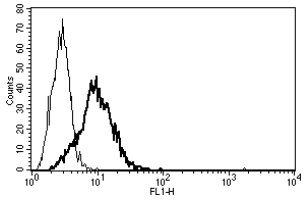
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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1 product image



Flow Cytometry - Anti-Neurotensin Receptor 1/NTSR1 antibody [B-N6] (ab27380)

Neurotensin Receptor 1/NTSR1 Flow Cytometry staining using mouse Anti-Neurotensin Receptor 1/NTSR1 antibody

Staining pattern of NTR transfected CHO cell line with ab27380.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.