

Anti-Human NK3R Monoclonal Antibody**Product Code: CABh-24118****Clone: 1A3-F6-1H1****For Research Use Only (RUO)**

Alternate Names	TACR3, HH11, NK-3R, NK3R, NKR, TAC3RL, Tachykinin receptor 3, TAC3R, NK3
Isotype	IgG2a
Conjugate	Unconjugated
Background	Human neurokinin-3 receptor (NK3R) is a 7-transmembrane G protein-coupled receptor (GPCR). NK3R is a Class A GPCR. Widely distributed throughout the central and peripheral nervous systems, NK3R serves as the primary receptor for the endogenous neuropeptide neurokinin B (NKB). NK3R binding to its ligand NKB, activates signaling through phosphatidylinositol hydrolysis by phospholipase C as well as activation of adenylate cyclase activity resulting in increased intracellular levels of cyclic AMP. Signaling through NK3R acts as a master rheostat for the hypothalamic-pituitary-gonadal (HPG) axis, controlling reproductive development, pubertal onset, and core thermoregulation. NK3R is an emerging therapeutic target for several disorders such as schizophrenia, drug addiction, and pre-eclampsia during pregnancy. Human NK3R protein has >80% sequence homology with mouse NK3R.

Product Details

Specificity	Human
Antibody Type	Monoclonal antibody
Host Species	Mouse
Immunogen	NK3R N-terminus, the exact sequence of the immunogen is proprietary.; UniProt # P29371
Formulation / Storage buffer	Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4 with 10% trehalose as protectant



Anti-Human NK3R Monoclonal Antibody

Product Code: CABh-24118

Clone: 1A3-F6-1H1

For Research Use Only (RUO)

Reconstitution

For best performance, we strongly recommend you reconstitute the lyophilized product with deionized water to a stock solution of 500 µg/mL. Solubilize for 20 minutes at room temperature with occasional gentle mixing. Avoid shaking or vortexing.

For 25µg product size:

Reconstitute with 50 µL sterile deionized water.

For 100µg product size:

Reconstitute with 200 µL sterile deionized water.

Shipping

Frozen Ice Packs

Purification

Affinity Enrichment

Stability & Storage

-20°C

Verified Application

ELISA

Recommended Usage

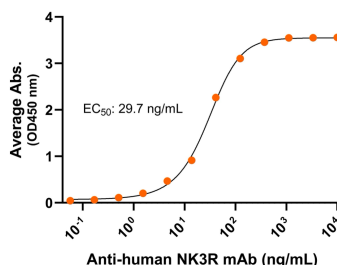
ELISA: starting concentration 1 µg/mL

Bioactive Data, Detection of Antigen by:

ELISA

Anti-human NK3R Monoclonal Antibody, ELISA

0.2µg of NK3R protein per well



Immobilized human NK3R fragment at 2 µg/mL (100 µL/well) can bind Mouse Anti-Human NK3R Monoclonal Antibody (Cat. No. CABh-24118) with half maximal effective concentration (EC₅₀) range of 14.9-59.4 ng/mL (QC tested).

Antigen Details

Structure	7-transmembrane protein, G protein-coupled receptor (GPCR)
Function	signaling through phosphatidylinositol hydrolysis by phospholipase C as well as activation of adenylate cyclase activity resulting in increased intracellular levels of cyclic AMP
Ligand / Receptor	neurokinin B (tachykinin neurokinin 3)
Cell Type	Podocytes, Retinal bipolar cells, Other brain neurons
Molecular Family	G protein-coupled receptor
Gene ID	P29371