

Datasheet for ABIN7043804

anti-TACR1 antibody (2nd Extracellular Loop) (Atto 488)[Go to Product page](#)

4 Images

Overview

Quantity:	50 µL
Target:	TACR1
Binding Specificity:	2nd Extracellular Loop, AA 180-194
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TACR1 antibody is conjugated to Atto 488
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: CMIEWPEHPNRTYEK, corresponding to amino acid residues 180-194 of rat NK1 receptor
Isotype:	IgG
Characteristics:	Anti-Neurokinin 1 Receptor (NK1R) (extracellular) Antibody (ABIN7043803, ABIN7045318 and ABIN7045319)) is a highly specific antibody directed against an epitope of the rat protein. The antibody can be used in western blot, indirect live cell flow cytometry, and live cell imaging applications. It has been designed to recognize NK1 receptor from rat, mouse, and human samples. \nAnti-Neurokinin 1 Receptor (NK1R) (extracellular)-ATTO Fluor-488 Antibody (#ABIN7043804) is directly labeled with an ATTO-488 fluorescent dye. ATTO dyes are characterized by strong absorption (high extinction coefficient), high fluorescence quantum yield, and high photo-stability. The ATTO-488 label is analogous to the well known dye

Product Details

fluorescein isothiocyanate (FITC) and can be used with filters typically used to detect FITC. Anti-Neurokinin 1 Receptor (NK1R) (extracellular)-ATTO Fluor-488 Antibody is especially suited for experiments requiring simultaneous labeling of different markers.

Purification: Affinity purified on immobilized antigen.

Target Details

Target: TACR1

Alternative Name: Neurokinin 1 Receptor (NK1R) ([TACR1 Products](#))

Background: Alternative names: Neurokinin 1 Receptor (NK1R), NK1 receptor, Tachykinin receptor 1, TACR1, Substance-P receptor, SPR

Gene ID: 24807

NCBI Accession: [NM_001058](#)

UniProt: [P14600](#)

Pathways: [Regulation of Systemic Arterial Blood Pressure by Hormones](#), [Feeding Behaviour](#), [Smooth Muscle Cell Migration](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: 50 µL double distilled water (DDW).

Concentration: 1 mg/mL

Buffer: Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: RT, 4 °C, -20 °C

Handling

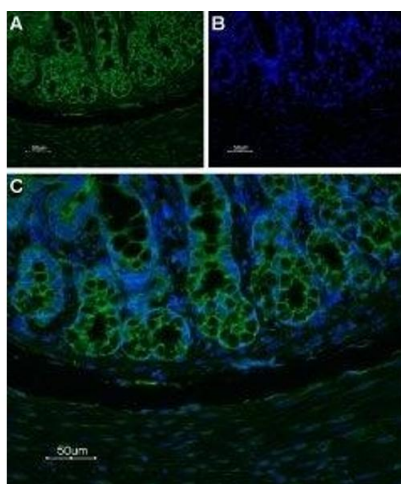
Storage Comment:

Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.

Upon arrival, it should be stored at -20°C.

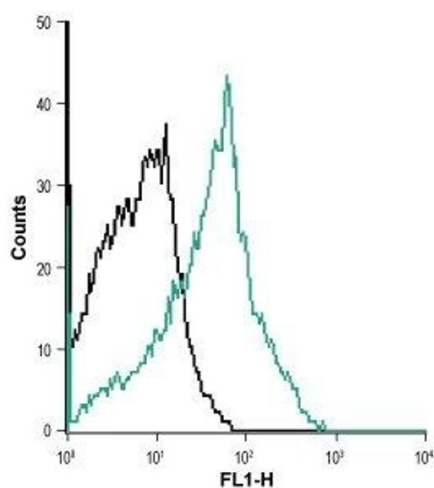
Storage after reconstitution: The reconstituted solution can be stored at 4°C, protected from the light, for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).

Images



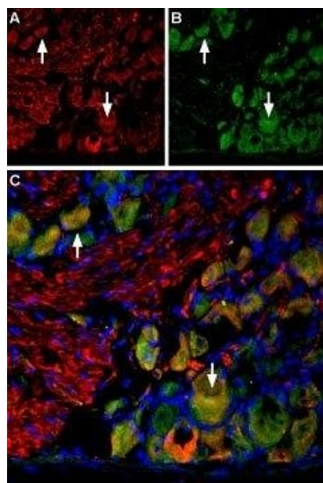
Immunohistochemistry

Image 1. Expression of NK1 receptor in rat colon - Immunohistochemical staining of rat colon paraffin-embedded section using Anti-Neurokinin 1 Receptor (NK1R) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043804), (1:100). A. NK1 receptor labeling (green) appears in the tubular glands of the mucosa layer. B. Nuclear staining using DAPI. C. Merge of panels A. and B.



Flow Cytometry

Image 2. Cell surface detection of NK1 receptor in MEG-O1 living cells: (black line) Unstained cells. (green line) Cells + Anti-Neurokinin Receptor 1 (NK1) (extracellular) ATTO-488 antibody (ABIN7043804), (5-10 µg/5x10⁵ cells).



Immunohistochemistry

Image 3. Multiplex staining of VGLUT2 and Neurokinin 1 Receptor in rat DRG - Immunohistochemical staining of perfusion-fixed frozen rat dorsal root ganglion (DRG) sections using Anti-VGLUT2-ATTO Fluor-594 Antibody (ABIN7043682), (1:60) and Anti-Neurokinin 1 Receptor (NK1R) (extracellular)-ATTO Fluor-488 Antibody (ABIN7043804), (1:60). A. VGLUT2 staining (red). B. NK1 receptor staining (green). C. Merge of the two images demonstrates co-localization in some neuronal bodies (arrows point at examples). Cell nuclei are stained with DAPI (blue).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7043804.