

Anti-Neurokinin 1 Receptor Monoclonal Antibody
Catalog # ABO14714**Specification**

Anti-Neurokinin 1 Receptor Monoclonal Antibody - Product Information

Application	WB, IHC, IP
Primary Accession	P25103
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-Neurokinin 1 Receptor Monoclonal Antibody . Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.

Anti-Neurokinin 1 Receptor Monoclonal Antibody - Additional Information

Gene ID 6869

Other Names

Substance-P receptor, SPR, NK-1 receptor, NK-1R, Tachykinin receptor 1, TACR1, NK1R, TAC1R

Application Details

WB 1:1000-1:5000
IHC 1:50-1:200
IP 1:50

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human Neurokinin 1 Receptor This is a receptor for the tachykinin neuropeptide substance P. It is probably associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: substance P > substance K > neuromedin-K.

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-Neurokinin 1 Receptor Monoclonal Antibody - Protein Information

Name TACR1

Synonyms NK1R, TAC1R

Function

This is a receptor for the tachykinin neuropeptide substance P. It is probably associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: substance P > substance K > neuromedin-K.

Cellular Location

Cell membrane; Multi-pass membrane protein.

Anti-Neurokinin 1 Receptor Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Neurokinin 1 Receptor Monoclonal Antibody - Images

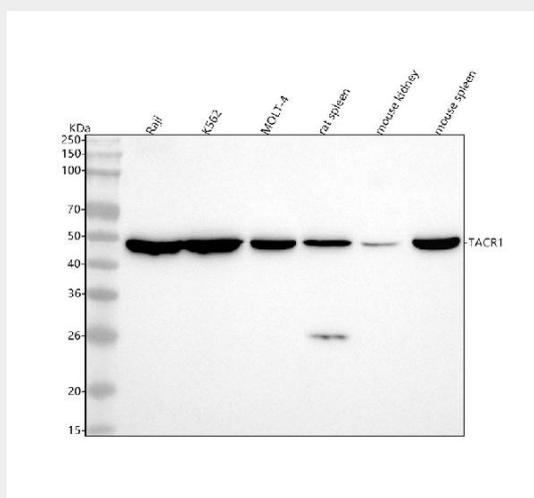


Figure 1. Western blot analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).

Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human Raji whole cell lysates,
Lane 2: human K562 whole cell lysates,
Lane 3: human MOLT-4 whole cell lysates,
Lane 4: rat spleen tissue lysates,
Lane 5: mouse kidney tissue lysates,
Lane 6: mouse spleen tissue lysates.

After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was

incubated with rabbit anti-Neurokinin 1 Receptor antigen affinity purified polyclonal antibody (Catalog # M01006) at 1:1000 overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Neurokinin 1 Receptor at approximately 48 kDa. The expected band size for Neurokinin 1 Receptor is at 46 kDa.

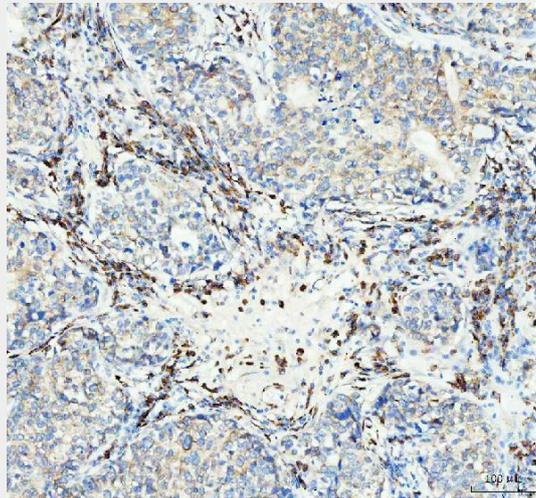


Figure 2. IHC analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).

Neurokinin 1 Receptor was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Neurokinin 1 Receptor Antibody (M01006) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

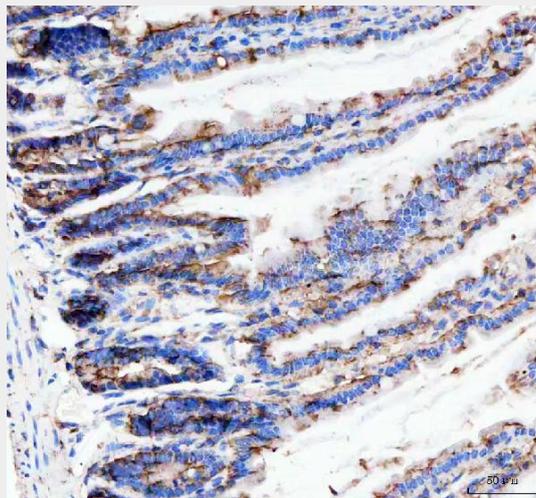


Figure 3. IHC analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).

Neurokinin 1 Receptor was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Neurokinin 1 Receptor Antibody (M01006) overnight at 4°C. Peroxidase Conjugated

Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

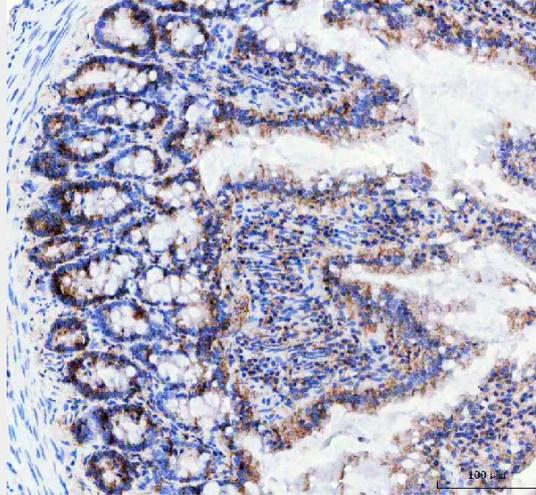


Figure 4. IHC analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).

Neurokinin 1 Receptor was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1:50 rabbit anti-Neurokinin 1 Receptor Antibody (M01006) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.