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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Neurokinin 1 Receptor Monoclonal Antibody

Catalog Number: M01006

About TACR1

Activated by icilin, eucalyptol, menthol, cold and modulation of intracellular pH. Involved in menthol sensation. Permeable for monovalent cations sodium, potassium, and cesium and divalent cation calcium.

Overview

Product Name	Anti-Neurokinin 1 Receptor Monoclonal Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Neurokinin 1 Receptor Monoclonal Antibody catalog # M01006. Tested in WB, IHC, IP applications. This antibody reacts with Human, Mouse, Rat.
Application	IP, IHC, WB
Clonality	Monoclonal AFBH-20
Formulation	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.
Storage Instructions	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.
Host	Rabbit
Uniprot ID	P25103

Technical Details

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.
Isotype	Rabbit IgG
Form	Liquid
Concentration	Actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Affinity-chromatography
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

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	Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB 1:1000-1:5000 IHC 1:50-1:200 IP 1:50

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Anti-Neurokinin 1 Receptor Monoclonal Antibody (M01006) Images

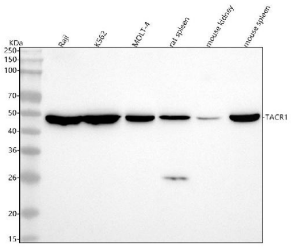

Figure 1. Western blot analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
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 monoclonal 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.

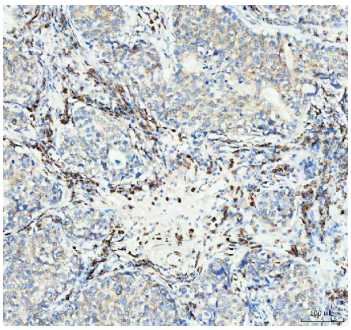

Figure 2. IHC analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).
Neurokinin 1 Receptor was detected in a paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue 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.

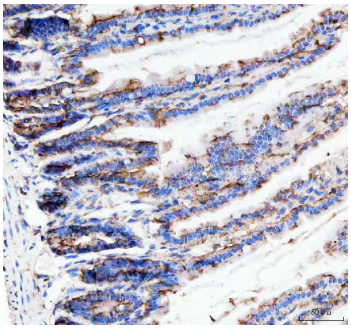

Figure 3. IHC analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).
Neurokinin 1 Receptor was detected in a paraffin-embedded section of mouse colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section 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

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SV0002) with DAB as the chromogen.

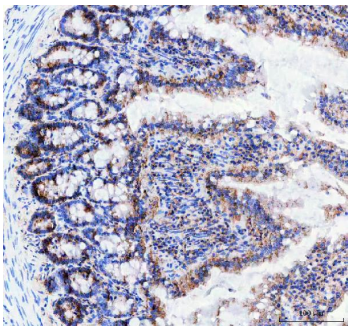

Figure 4. IHC analysis of Neurokinin 1 Receptor using anti-Neurokinin 1 Receptor antibody (M01006).
Neurokinin 1 Receptor was detected in a paraffin-embedded section of rat colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section 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.