

# Product Datasheet

## Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (JE38-35) NBP3-32617

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-32617****Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (JE38-35)**

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	JE38-35
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	52 kDa

<b>Product Description</b>	
<b>Host</b>	Rabbit
<b>Gene ID</b>	1129
<b>Gene Symbol</b>	CHRM2
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Synthetic peptide within Human Muscarinic Acetylcholine Receptor M2/CHRM2 aa 140-184 / 466. (Uniprot: P08172)

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Flow Cytometry 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:1000



## Images

**Western Blot: Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (JE38-35) [NBP3-32617]** - Western blot analysis of Muscarinic Acetylcholine Receptor M2/CHRM2 on different lysates with Rabbit anti-Muscarinic Acetylcholine Receptor M2/CHRM2 antibody (NBP3-32617) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate  
 Lane 2: SH-SY5Y cell lysate  
 Lane 3: U-87 MG cell lysate  
 Lane 4: Neuro-2a cell lysate  
 Lane 5: PC-12 cell lysate

Lysates/proteins at 20 ug/Lane.

Predicted band size: 52 kDa  
 Observed band size: 52 kDa

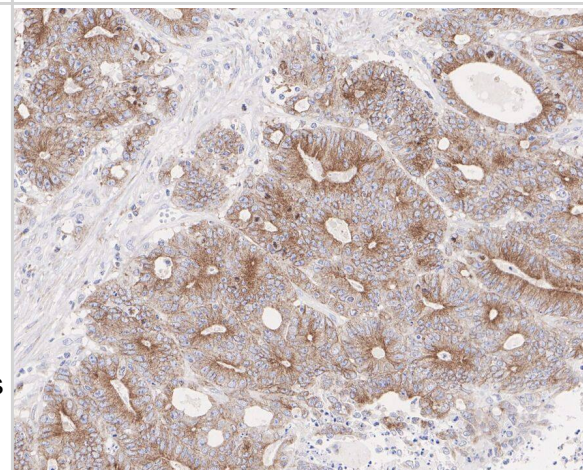
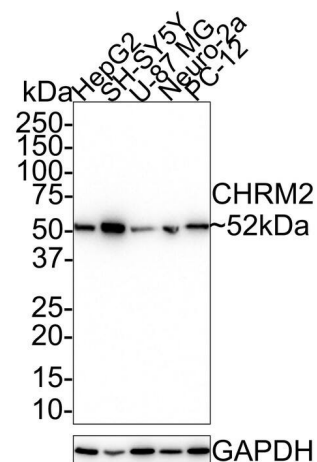
Exposure time: 1 minute 17 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-32617) at 1/1,000 dilution was used in 5% NFDM/TBST at 4 overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:100,000 dilution was used for 1 hour at room temperature.

**Immunohistochemistry: Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (JE38-35) [NBP3-32617]** - Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-Muscarinic Acetylcholine Receptor M2/CHRM2 antibody (NBP3-32617) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32617) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



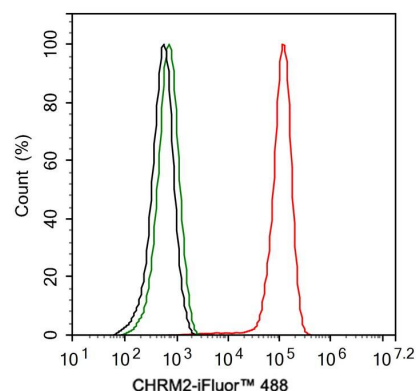
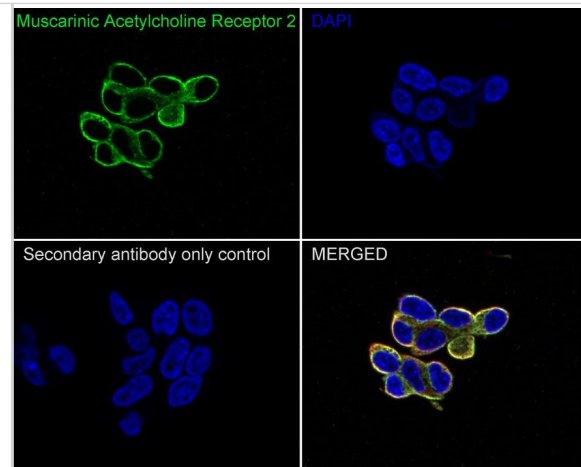
**Immunocytochemistry/ Immunofluorescence: Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (JE38-35) [NBP3-32617] -**  
**Immunocytochemistry analysis of SH-SY5Y cells labeling Muscarinic Acetylcholine Receptor M2/CHRM2 with Rabbit anti-Muscarinic Acetylcholine Receptor M2/CHRM2 antibody (NBP3-32617) at 1/100 dilution.**

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Muscarinic Acetylcholine Receptor M2/CHRM2 antibody (NBP3-32617) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

**Flow Cytometry: Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (JE38-35) [NBP3-32617] - Flow cytometric analysis of SH-SY5Y cells labeling Muscarinic Acetylcholine Receptor M2/CHRM2.**

Cells were fixed and permeabilized. Then stained with the primary antibody (NBP3-32617, 1ug/ml) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 °C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody at 1/1,000 dilution for 30 minutes at +4 °C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).





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### **Products Related to NBP3-32617**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00001129-Q01-10ug	Recombinant Human Muscarinic Acetylcholine Receptor M2/CHRM2 GST (N-Term) Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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