

# Product Datasheet

## Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (31-1D1) NB120-2805-125ul

Unit Size: 125 ul

Store at -20C. Avoid freeze-thaw cycles.

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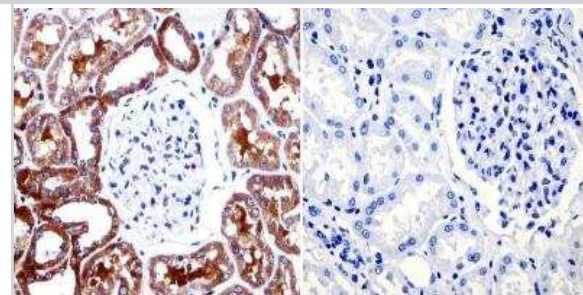


**NB120-2805-125ul****Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (31-1D1)**

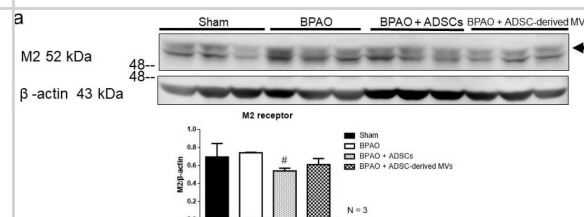
<b>Product Information</b>	
<b>Unit Size</b>	125 ul
<b>Concentration</b>	2 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	31-1D1
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS with 1 mg/ml BSA
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (31-1D1) (NB120-2805) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. Anti-Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	1129
<b>Gene Symbol</b>	CHRM2
<b>Species</b>	Human, Mouse, Rat, Porcine
<b>Reactivity Notes</b>	Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Additional Mouse on Mouse blocking steps may be required for IHC and ICC experiments. Please contact Technical Support for more information.
<b>Specificity/Sensitivity</b>	This is specific for the m2 mAChR subtype.
<b>Immunogen</b>	Purified porcine cardiac m2 muscarinic acetylcholine receptor.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:1000, Flow Cytometry 1:10 - 1:1000, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 2 ug/ml, Immunoprecipitation 1:10 - 1:500, Immunohistochemistry-Paraffin 1:20
<b>Application Notes</b>	WB: Detects 60 - 80 kDa protein(s) (depending on the degree of glycosylation) representing the m2AChR / CHRM2.

## Images

Immunohistochemistry-Paraffin: Muscarinic Acetylcholine Receptor M2/CHRM2 Antibody (31-1D1) [NB120-2805] - Human kidney tissue.



Purinergic and muscarinic signaling associated molecules changes on western blot study in separated group. Figure 7 showed the expression of muscarinic cholinergic (M2 and M3) and purinergic receptor proteins (P2X2 and P2X3) by Western blot. In the top panel, (a) showed the expression of M2 receptor is significantly decreased in BPAO + ADSCs group compared to BAPO group ( $\# p < 0.05$ ). The expression of M2 receptor had trend of decreasing in BPAO + ADSC-derived MVs group compared to BAPO group without significant differences ( $p > 0.05$ ). In the middle panel, (b) showed that the expression of M3 receptor was significantly increased in BPAO group compared to sham group ( $* p < 0.05$ ). The expression of M3 receptor is significantly decreased in BPAO + ADSC-derived MVs group compared to BAPO group ( $\# p < 0.05$ ). (c) showed the expression of P2X2 receptors was significantly increased in BPAO group compared to sham group ( $* p < 0.05$ ). The expression of P2X2 receptor is significantly decreased in BPAO + ADSC-derived MVs and BAPO + MVs group compared to BAPO group ( $\# p < 0.05$ ). In the bottom panel, (d) showed the expression of P2X3 receptor is of no significant differences between groups. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34210091>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Chiang BJ, Mao SH, Chung SD, Chien CT Adipose-derived stem cell-derived microvesicles prevent progression to bladder underactivity secondary to long-termed bilateral partial iliac arterial occlusion-induced bladder ischemia Research Square 2021-01-01 [PMID: 34210091] (WB, Rat)



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### **Products Related to NB120-2805-125ul**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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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