

Datasheet: AHP1355 BATCH NUMBER 161170

Description:	RABBIT ANTI HUMAN MUSCARINIC RECEPTOR M3
Specificity:	MUSCARINIC RECEPTOR M3
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications	This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further						
	information. For general p	-					
	rad-antibodies.com/protocols.						
		Yes	No	Not Determined	Suggested Dilution		
	Flow Cytometry			•			
	Immunohistology - Frozen			•			
	Immunohistology - Paraffin				40		
	(1)				10ug/ml		
	ELISA			•			
	Immunoprecipitation			•			
	Western Blotting						
	Functional Assays			•			
	necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls. (1)This product requires antigen retrieval using heat treatment prior to staining of paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.						
Target Species	Human						
Species Cross Reactivity	Based on sequence similarity, is expected to react with:Mouse N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.						
Product Form	Purified IgG - liquid						

Antiserum Preparation Antisera to human muscarinic receptor M3 were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline					
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)					
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml					
Immunogen	Synthetic peptide corresponding to the 3rd cytoplasmic domain of human muscarinic receptor M3, conjugated to Keyhole Limpet Hemocyanin (KLH)					
External Database Links	UniProt: <u>P20309</u> <u>Related reagents</u> Entrez Gene: <u>1131</u> CHRM3 <u>Related reagents</u>					
RRID	AB_906091					
Specificity	 Rabbit anti Human muscarinic receptor M3 antibody detects the muscarinic receptor M3, a G protein-coupled receptor for acetylcholine which is expressed in smooth muscle and glandular tissues. The M3 subtype is coupled to other G proteins known as G_o or G_q which activate phospholipase C leading to an increase in intracellular Ca²⁺. The M3 muscarinic receptor controls smooth muscle contraction in blood vessels and lungs as well as in the gastrointestinal tract. It is also located in many glands, and its activation helps to stimulate secretion. Mutations in the CHRM gene can lead to the development of Prune Belly Syndrome (PBS), a condition characterized by weak abdominal musculature, lax overlying skin, cryptorchism and urinary tract abnormalities (Weber <i>et al.</i> 2011). 					
Histology Positive Control Tissue	Brain, cortex.					
References	1. Billington, C.K. & Penn, R.B. (2002) m3 muscarinic acetylcholine receptor regulation in the airway. <u>Am J Respir Cell Mol Biol. 26 (3): 269-72.</u>					
Further Reading	 Felton, J. <i>et al.</i> (2018) Targeting M3 Muscarinic Receptors for Colon Cancer Therapy. <u>Curr Mol Pharmacol. Jan 18 [Epub ahead of print].</u> Pronin, A.N. <i>et al.</i> (2017) Teaching an Old Drug New Tricks: Agonism, Antagonism, and Biased Signaling of Pilocarpine through M3 Muscarinic Acetylcholine Receptor. <u>Mol Pharmacol. 92 (5): 601-612.</u> 					
Storage	This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for					

 short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

 Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

 Guarantee
 12 months from date of despatch

 Health And Safety
 Material Safety Datasheet documentation #10040 available at:

 Information
 https://www.bio-rad-antibodies.com/SDS/AHP1355

 10040
 For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCGoat Anti Rabbit IgG (H/L) (STAR124...)HRPSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRPRecommended Useful Reagents

ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)

North & South	Tel: +1 800 265 7376	Worldwide	Tel: +44 (0)1865 852 700	Europe	Tel: +49 (0) 89 8090 95 21
America	Fax: +1 919 878 3751		Fax: +44 (0)1865 852 739		Fax: +49 (0) 89 8090 95 50
	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-r	ad.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M389143:210806'

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