

Rabbit CHRM4 / M4 Polyclonal Antibody | anti-CHRM4 antibody

Rabbit Polyclonal (IgG) to Human CHRM4 / M4

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12369	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, ELISA

PRODUCT SYNONYMS

CHRM4 / M4; Polyclonal Antibody; Rabbit Polyclonal (IgG) to Human CHRM4 / M4; CHRM4 Antibody; M4 muscarinic receptor Antibody; M4R Antibody; Muscarinic m4 receptor Antibody; HM4 Antibody; Muscarinic receptor m4 Antibody; anti-CHRM4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	CHRM4 Antibody detects endogenous levels of total CHRM4 protein.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS (without Mg2+, Ca2+), pH 7.4, 150 mM NaCl, 0.02% sodium azide, 50% glycerol
Concentration	1 mg/mL (varies by lot)
Sequence Length	479
Applicable Applications for anti-CHRM4 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA (Peptide ELISA)
Application Notes	IF: 1:100-1:500 IHC-P: 1:50 Optimal dilution to be determined by the researcher.
Immunogen	CHRM4 / M4 antibody was raised against synthetic peptide from human CHRM4 (aa236-285).
Immunogen Species	CHRM4 / M4 antibody was raised against human
Epitope	aa236-285
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

Recommended Immunohistochemistry Protocol

The following protocol is a recommendation only, and AAA Biotech, Inc. makes no guarantee of the results:

Tissue Preparation:

Formalin fixation and embedding in paraffin wax.

Tissue Sectioning:

Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C.

Deparaffinization:

Wash dry slides in 3 changes of xylene - 5 minutes each @ RT

Rehydration:

Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT

Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT

Wash slides in 1 change of 80% alcohol - 3 minutes @ RT

Rinse slides in gentle running distilled water - 5 minutes @ RT

Antigen retrieval:

Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes

Remove from heat and let stand at room temperature in buffer - 20 minutes

Rinse in 1X TBS with Tween (TBST) -1 minute @ RT

Immunostaining:

(Do not allow tissues to dry at any time during the staining procedure)

Apply a universal protein block - 20 minutes @ RT

Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT

Rinse slides in 1 X TBST - 1 minute @ RT

Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT

Rinse slides in 1X TBST -1 minute @ RT

Apply alkaline phosphatase streptavidin - 30 minutes @ RT

Rinse slides in 1X TBST -1 minute @ RT

Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT

Wash slides in distilled water - 1 minute @ RT

Dehydrate:

(This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB)

Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT

Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT

Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT

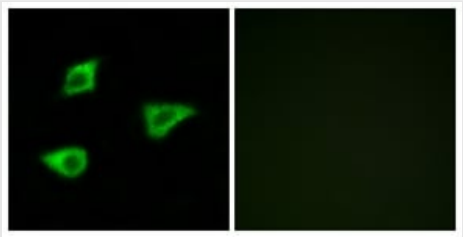
Wash slides in 3 changes of xylene - 1 minute each @ RT

Apply coverslip

Preparation and Storage

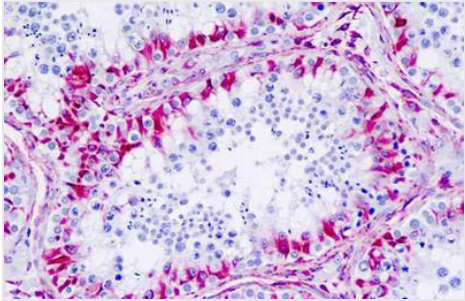
Store at -20°C for up to one year.

IMAGES



IF (Immunofluorescence)

Immunofluorescence of LOVO cells, using CHRM4 Antibody. The picture on the right is treated with the synthesized peptide.



IHC (Immunohistochemistry)

Anti-CHRM4 / M4 antibody IHC staining of human testis. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval.

ADDITIONAL INFORMATION

Product Categories/Family for anti-CHRM4 antibody	Family: GPCR; Subfamily: Acetylcholine
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NCBI AND UNIPROT INFORMATION

NCBI GI #	52426748
NCBI GeneID	1132
NCBI Accession #	NP_000732.2
NCBI GenBank Nucleotide #	NM_000741.2
UniProt Accession #	P08173; Q0VD60; Q4VBK7; B2RPP4
Molecular Weight	Western Blot: Predicted MW 53kDa
NCBI Official Full Name	muscarinic acetylcholine receptor M4
NCBI Official Synonym Full Names	cholinergic receptor, muscarinic 4
NCBI Official Symbol	CHRM4
NCBI Official Synonym Symbols	HM4; M4R
NCBI Protein Information	muscarinic acetylcholine receptor M4; acetylcholine receptor, muscarinic 4
UniProt Protein Name	Muscarinic acetylcholine receptor M4
UniProt Gene Name	CHRM4
UniProt Entry Name	ACM4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.