RAX Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	RAX, Monoclonal Antibody
Full Product Name	RAX (Retina and anterior Neural fold Homeobox, MCOP3, RX) (MaxLight 490)
Product Gene Name	anti-RAX antibody
Product Synonym Names	Retina and anterior Neural fold Homeobox; MCOP3; RX
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	100
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified
Specificity	Recognizes RAX.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	37kDa
OMIM	gene 611038
3D Structure	ModBase 3D Structure for Q9Y2V3
Immunogen	RAX (NP_038463, 253aa-346aa) full length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GATALQSLPGFGPPAQSLPASYTPPPPPPPFLNSPPLGPGLQPLAPPPPSYPCGPGFGDKFPLDEADPRNSSIAALRLKAKEHIQAIGKPWQAL*
Conjugate	MaxLight490
Product Categories/Family for anti-RAX antibody	Antibodies; Transcription Factors; Homeobox (HOX)
Applications Tested/Suitable for anti-RAX antibody	FLISA, Western Blot (WB)
Application Notes for anti-RAX antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-RAX antibody	Development of the vertebrate eye requires a series of steps including specification of the anterior neural plate, evagination of the optic vesicles from the ventral forebrain, and the cellular differentiation of the lens and retina. Homeobox-containing genes, including RAX, play a critical role in vertebrate and invertebrate eye formation (Mathers et al., 1997 [PubMed 9177348]). [supplied by OMIM]

Other Notes	Small volumes of anti-RAX antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for RAX purchase	MBS6208226 is an antibody targeting RAX. Also known as RAX (Retina and anterior Neural fold Homeobox, MCOP3, RX) (MaxLight 490). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAX. It may not necessarily be applicable to this product.

NCBI GI #	126116581
NCBI GeneID	30062
NCBI Accession #	NP_038463
UniProt Primary Accession #	Q9Y2V3
UniProt Related Accession #	Q9Y2V3
GenBank Nucleotide #	NM_013435
NCBI Official Full Name	retinal homeobox protein Rx
NCBI Official Synonym Full Names	retina and anterior neural fold homeobox
NCBI Official Symbol	RAX
NCBI Official Synonym Symbols	RX; MCOP3
UniProt Protein Name	Retinal homeobox protein Rx
UniProt Synonym Protein Names	Retina and anterior neural fold homeobox protein
Protein Family	Retinal homeobox protein
UniProt Gene Name	RAX
UniProt Synonym Gene Names	RX
UniProt Entry Name	RX_HUMAN
NCBI Protein Information	retinal homeobox protein Rx
NCBI Summary for RAX	This gene encodes a homeobox-containing transcription factor that functions in eye development. The gene is expressed early in the eye primordia, and is required for retinal cell fate determination and also regulates stem cell proliferation. Mutations in this gene have been reported in patients with defects in ocular development, including microphthalmia, anophthalmia, and coloboma.[provided by RefSeq, Oct 2009]
Research Articles on RAX	**1.** The three consanguineous Egyptian anophthalmia patients carry a novel homozygous c.543+3A>G mutation (IVS2+3A>G) in RAX.
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