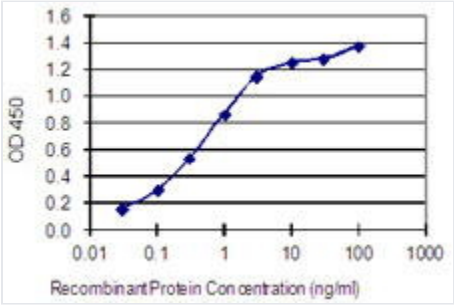
GJA8 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GJA8, Monoclonal Antibody
Full Product Name	GJA8 (Gap Junction Protein, alpha 8, 50kD, CAE, CAE1, CX50, CZP1, MP70) (FITC)
Product Gene Name	anti-GJA8 antibody
Product Synonym Names	Gap Junction Protein; alpha 8; 50kD; CAE; CAE1; CX50; CZP1; MP70
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	8A10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein isothiocyanate (FITC).
Purity/Purification	Purified
Specificity	Recognizes GJA8.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and stor C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	48kDa
OMIM	600897
3D Structure	ModBase 3D Structure for P48165
Immunogen	GJA8 (NP_005258, 301aa-410aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	EEKISTGPLGDLSRGYQETLPSYAQVGAQEVEGEGPPAEEGAEPEVGEKKEEAERLTTEEQEKVAVPEGEKVETPGVDKEGEKEEPQSEKVSKQGLPAE
Conjugate	FITC
Product Categories/Family for anti-GJA8 antibody	Antibodies; Connexin; Junction Proteins
Applications Tested/Suitable for anti-GJA8 antibody	Western Blot (WB)
Application Notes for anti-GJA8 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-GJA8 antibody	MBS6179068 is an antibody targeting GJA8. Also known as GJA8 (Gap Junction Protein, alpha 8, 50kD, CAE, CAE1, CX50, CZP1, MP70) (FITC). Hos Mouse monoclonal antibody raised against a partial recombinant GJA8.
Other Notes	Small volumes of anti-GJA8 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 apply.



Testing Data of anti-GJA8 antibody
Detection limit for recombinant GST tagged GJA8 is 0.03 ng/ml as a capture antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GJA8. It may not necessarily be applicable to this product.

NCBI GI #	55953076
NCBI GeneID	2703
NCBI Accession #	NP_005258
UniProt Primary Accession #	P48165
UniProt Related Accession #	P48165
GenBank Nucleotide #	NM_005267
NCBI Official Full Name	gap junction alpha-8 protein
NCBI Official Synonym Full Names	gap junction protein alpha 8
NCBI Official Symbol	GJA8
NCBI Official Synonym Symbols	CAE; CAE1; CX50; CZP1; MP70; CTRCT1
UniProt Protein Name	Gap junction alpha-8 protein
UniProt Synonym Protein Names	Connexin-50; Cx50; Lens fiber protein MP70
Protein Family	Gap junction alpha-8 protein
UniProt Gene Name	GJA8
UniProt Synonym Gene Names	Cx50
UniProt Entry Name	CXA8_HUMAN
NCBI Protein Information	gap junction alpha-8 protein
NCBI Summary for GJA8	This gene encodes a transmembrane connexin protein that is necessary for lens growth and maturation of lens fiber cells. The encoded protein is a component of gap junction channels and functions in a calcium and pH-dependent manner. Mutations in this gene have been associated with zonular pulverulent cataracts, nuclear progressive cataracts, and cataract-microcornea syndrome. [provided by RefSeq, Dec 2009]
Research Articles on GJA8	**1.** Together, these results suggest that in addition to forming gap junction channels, Cx50 acts as an adhesive molecule that is critical in maintaining lens fiber integrity and epithelial-fiber differentiation.

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