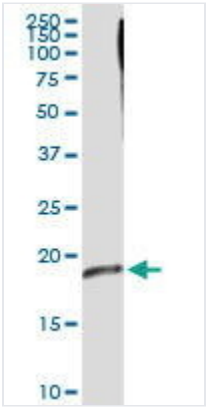
CRYGD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CRYGD, Polyclonal Antibody
Full Product Name	CRYGD (Gamma-crystallin D, Gamma-D-crystallin, Gamma-crystallin 4, CRYG4)
Product Gene Name	anti-Crygd antibody
Product Synonym Names	Anti -CRYGD (Gamma-crystallin D, Gamma-D-crystallin, Gamma-crystallin 4, CRYG4)
Immunogen Sequence	MGKITLYEDR GFQGRHYECS SDHPNLQPYL SRCNSARVDS GCWMLYEQPN YSGLQYFLRR GDYADHQQWM GLSDSVRSCR LIPHSGSHRI RLYEREDYRG QMIEFTEDCS CLQDRFRFNE IHSLNVLEGS WVLYELSNYR GRQYLLMPGD YRRYQDWGAT NARVGSLRRV IDFS
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid.
Purity/Purification	Serum Serum
Specificity	Recognizes human CRYGD.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	21,118 Da
Chromosome Location	Chromosome: 1; NC_000067.6 (65061838..65063440, complement). Location: 1 C2; 1 32.8 cM
3D Structure	ModBase 3D Structure for P04342
Immunogen	Full length human CRYGD, aa1-174 (NP_008822.2).
Product Categories/Family for anti-Crygd antibody	Antibodies; Abs to Crystallins
Applications Tested/Suitable for anti-Crygd antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-Crygd antibody	Suitable for use in Western Blot and Immunoprecipitation.
Related Product Information for anti-Crygd antibody	Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Gamma-crystallins are a homogeneous group of highly symmetrical, monomeric proteins typically lacking connecting peptides and terminal extensions. They are differentially regulated after early development. Four gamma-crystallin genes (gamma-A through gamma-D) and three pseudogenes (gamma-E, gamma-F, gamma-G) are tandemly organized in a genomic segment as a gene cluster. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation.

Other Notes	Small volumes of anti-Crygd 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 Crygd purchase	MBS644686 is an antibody targeting Crygd. Also known as CRYGD (Gamma-crystallin D, Gamma-D-crystallin, Gamma-crystallin 4, CRYG4). Reactive in Human. Host: Rabbit.



Immunoprecipitation (IP) of anti-Crygd antibody
Immunoprecipitation of CRYGD transfected lysate using CRYGD rabbit polyclonal antibody and Protein A Magnetic Bead and immunoblotted with CRYGD purified mouse polyclonal antibody.

ADDITIONAL DETAILS

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

NCBI GI #	34784220
NCBI GeneID	12967
NCBI Accession #	AAH57013.1
UniProt Primary Accession #	P04342
UniProt Secondary Accession #	O89027; Q6PGI0
UniProt Related Accession #	P04342
NCBI Official Full Name	Crygd protein
NCBI Official Synonym Full Names	crystallin, gamma D
NCBI Official Symbol	Crygd
NCBI Official Synonym Symbols	Aey4; Lop12; Cryg-1; DGcry-1
UniProt Protein Name	Gamma-crystallin D
UniProt Synonym Protein Names	Gamma-D-crystallin; Gamma-crystallin 1
Protein Family	Gamma-crystallin
UniProt Gene Name	Crygd
UniProt Entry Name	CRGD_MOUSE
NCBI Protein Information	gamma-crystallin D; lens opacity 12; gamma-D-crystallin; gamma-crystallin 1

UniProt Comments for Crygd	CRYGD: a major structural protein of the eye lens. A member of the beta/gamma-crystallin family. Defects are the cause of congenital zonular cataract with sutural opacities. Two splice-variant isoforms have been described. Protein type: Cytoskeletal Cellular Component: cytoplasm; nucleus Molecular Function: structural constituent of eye lens Biological Process: lens development in camera-type eye; visual perception; eye development
Research Articles on Crygd	**1.** Mutant gammaD-V76D reduces protein solubility in the lens and forms substantial intranuclear aggregates that disrupt the denucleation process of inner lens fiber cells
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