

CRYGD Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18816c**Specification**

CRYGD Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P07320
Other Accession	P10067 , NP_008822.2
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	20738
Antigen Region	73-101

CRYGD Antibody (Center) - Additional Information**Gene ID** 1421**Other Names**

Gamma-crystallin D, Gamma-D-crystallin, Gamma-crystallin 4, CRYGD, CRYG4

Target/Specificity

This CRYGD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 73-101 amino acids from the Central region of human CRYGD.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

CRYGD Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

CRYGD Antibody (Center) - Protein Information**Name** CRYGD**Synonyms** CRYG4

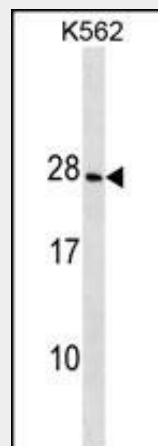
Function Crystallins are the dominant structural components of the vertebrate eye lens.

CRYGD Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CRYGD Antibody (Center) - Images



CRYGD Antibody (Center)(Cat. #AP18816c) western blot analysis in K562 cell line lysates (35ug/lane). This demonstrates the CRYGD antibody detected the CRYGD protein (arrow).

CRYGD Antibody (Center) - Background

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.

CRYGD Antibody (Center) - References

Acosta-Sampson, L., et al. J. Mol. Biol. 401(1):134-152(2010)
Wang, Y., et al. Proc. Natl. Acad. Sci. U.S.A. 107(30):13282-13287(2010)
Pande, A., et al. Biochemistry 49(29):6122-6129(2010)
Das, P., et al. Protein Sci. 19(1):131-140(2010)
Roshan, M., et al. Mol. Vis. 16, 887-896 (2010) :