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Datasheet for ABIN4997403

anti-CRYGS antibody (AA 101-178) (Alexa Fluor 680)

Overview

| | |
|----------------------|---|
| Quantity: | 100 µL |
| Target: | CRYGS |
| Binding Specificity: | AA 101-178 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CRYGS antibody is conjugated to Alexa Fluor 680 |
| Application: | Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)) |

Product Details

| | |
|-----------------------|---|
| Immunogen: | KLH conjugated synthetic peptide derived from human Beta crystallin S |
| Isotype: | IgG |
| Predicted Reactivity: | Human, Mouse, Rat, Dog, Cow, Sheep, Pig, Rabbit |
| Purification: | Purified by Protein A. |

Target Details

| | |
|-------------------|---|
| Target: | CRYGS |
| Alternative Name: | Beta crystallin S (CRYGS Products) |
| Background: | Synonyms: AI327013, Beta-crystallin S, CRBS_HUMAN, CRYG8, crygs, Crystallin, gamma 8, |

Target Details

Crystallin, gamma polypeptide 8, Crystallin, gamma S, Gamma crystallin S, Gamma S crystallin, Gamma-crystallin S, Gamma-S-crystallin, recessive nuclear cataract, Opj, rncat.

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. This gene encodes a protein initially considered to be a beta-crystallin but the encoded protein is monomeric and has greater sequence similarity to other gamma-crystallins. This gene encodes the most significant gamma-crystallin in adult eye lens tissue. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation. [provided by RefSeq, Jul2008].

Gene ID: 1427

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months