

**DATASHEET**

**Mu-crystallin Rabbit Polyclonal Antibody**

CAT. NO. APA14316

**KEY FEATURES**

Target	Mu-crystallin	Source / Host	Rabbit
Reactivity	Human, Mouse, Rat	Clonality	Polyclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		Storage at -20°C

**BACKGROUND**

Catalyzes the NAD(P)H-dependent reduction of imine double bonds of a number of cyclic ketimine substrates, including sulfur-containing cyclic ketimines. Under physiological conditions, it efficiently catalyzes delta(1)-piperidine-2-carboxylate (P2C) and delta(1)-pyrroline-2-carboxylate (Pyr2C) reduction, suggesting a central role in lysine and glutamate metabolism. Additional substrates are delta(2)-thiazoline-2-carboxylate (T2C), 3,4-dehydrothiomorpholine-3-carboxylate (AECK), and (R)-lanthionine ketimine (LK) that is reduced at very low rate compared to other substrates.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
----	----------------

\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

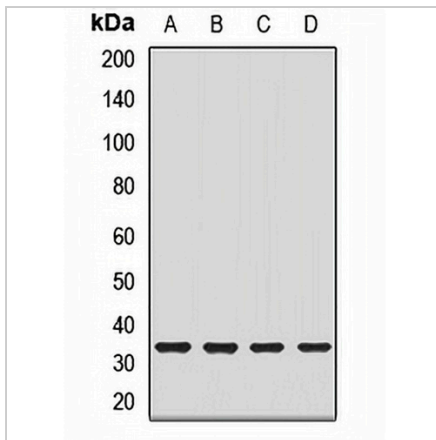
Description	Rabbit polyclonal antibody to Mu-crystallin
Specificity	Recognizes endogenous levels of Mu-crystallin protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Mu-crystallin
Purification	The antibody was purified by immunogen affinity chromatography.
Molecular Weight	Predicted: 33 kD; Observed: 36 kD
Form/Buffer	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Alternative Names	THBP; Ketimine reductase mu-crystallin; NADP-regulated thyroid-hormone-binding protein
Gene Symbol	CRYM
Entrez Gene	1428(Human); 12971(Mouse); 117024(Rat)
SwissProt	Q14894(Human); O54983(Mouse); Q9QYU4(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

**DATASHEET****Mu-crystallin Rabbit Polyclonal Antibody**

CAT. NO. APA14316

**DATA**

Western blot analysis of Mu-crystallin expression in A549 (A), HepG2 (B), mouse kidney (C), rat brain (D) whole cell lysates. (Predicted band size: 33 kD; Observed band size: 36 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.