

## Product datasheet for **CF501433**

### **mu Crystallin (CRYM) Mouse Monoclonal Antibody [Clone ID: OTI1B5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI1B5
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	WB: 1:200 - 1:1000, IHC 1:300, IF 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG2a
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human CRYM (NP_001879) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	33.6 kDa
<b>Gene Name:</b>	crystallin mu
<b>Database Link:</b>	<a href="#">NP_001879</a> <a href="#">Entrez Gene 12971 Mouse</a> <a href="#">Entrez Gene 117024 Rat</a> <a href="#">Entrez Gene 1428 Human</a> <a href="#">Q14894</a>



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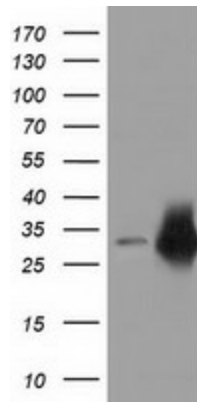
**Background:**

Crystallins are separated into two classes: taxon-specific and ubiquitous. The former class is also called phylogenetically-restricted crystallins. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. This gene encodes a taxon-specific crystallin protein that binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. The encoded protein does not perform a structural role in lens tissue, and instead it binds thyroid hormone for possible regulatory or developmental roles. Mutations in this gene have been associated with autosomal dominant non-syndromic deafness. Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq]

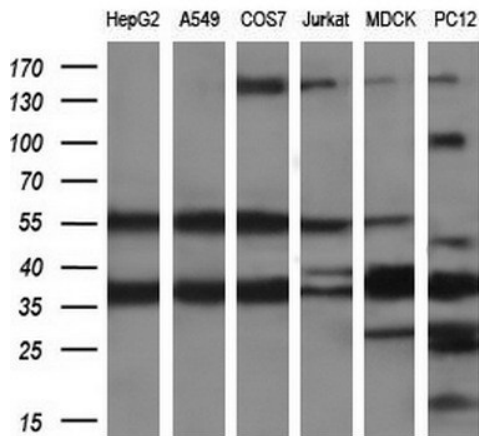
**Synonyms:**

DFNA40; THBP

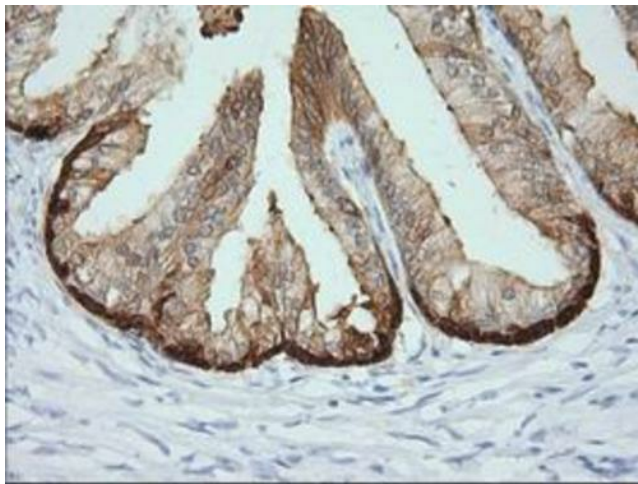
**Product images:**



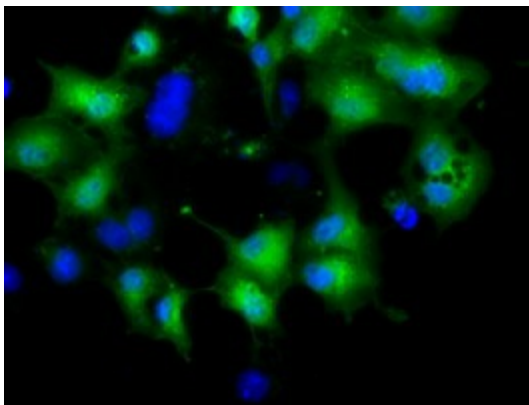
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CRYM ([RC218123], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CRYM. Positive lysates [LY419685] (100ug) and [LC419685] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (10ug) from 6 different cell lines by using anti-CRYM monoclonal antibody (1:200).



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-CRYM mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Anti-CRYM mouse monoclonal antibody ([TA501433]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CRYM ([RC218123]).