

CRYM Antibody (clone 6B3)
Mouse Monoclonal Antibody
Catalog # ALS13294**Specification****CRYM Antibody (clone 6B3) - Product Information**

| | |
|-------------------|------------------------------------|
| Application | WB, IHC-P, E |
| Primary Accession | Q14894 |
| Reactivity | Human |
| Host | Mouse |
| Clonality | Monoclonal |
| Calculated MW | 34kDa KDa |
| Dilution | WB~~1:1000 IHC-P~~N/A E~~N/A |

CRYM Antibody (clone 6B3) - Additional Information**Gene ID** 1428**Other Names**

Ketimine reductase mu-crystallin, 1.5.1.25, NADP-regulated thyroid-hormone-binding protein, CRYM, THBP

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

CRYM Antibody (clone 6B3) is for research use only and not for use in diagnostic or therapeutic procedures.

CRYM Antibody (clone 6B3) - Protein Information**Name** CRYM ([HGNC:2418](#))**Function**

Catalyzes the NAD(P)H-dependent reduction of imine double bonds of a number of cyclic ketimine substrates, including sulfur- containing cyclic ketimines (PubMed:21332720, PubMed:25931162). 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 (PubMed:25931162). 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 (PubMed:25931162). Also catalyzes the NAD(P)H-dependent reduction of (S)-cystathionine ketimine (CysK) (By similarity).

Cellular Location

Cytoplasm.

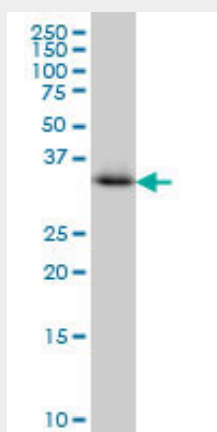
Tissue Location

Expressed in neural tissues, muscle and kidney (PubMed:1384048). Expressed in the inner ear (PubMed:12471561)

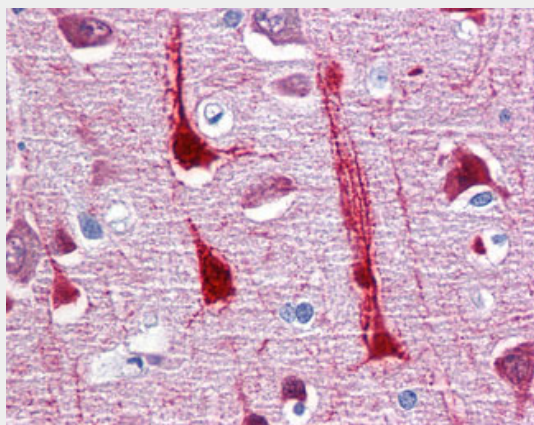
CRYM Antibody (clone 6B3) - Protocols

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

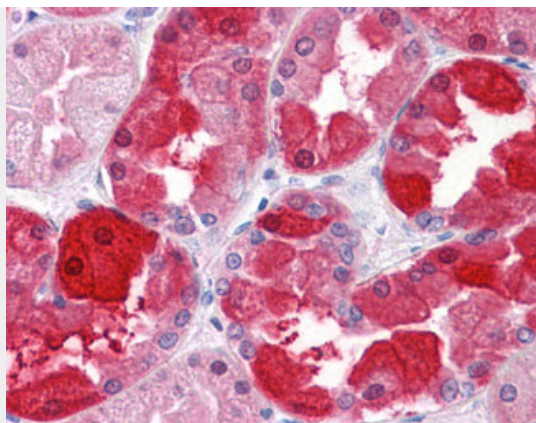
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CRYM Antibody (clone 6B3) - Images

CRYM monoclonal antibody clone 6B3 Western blot of CRYM expression in Jurkat.



Anti-CRYM antibody IHC of human brain, cortex.



Anti-CRYM antibody IHC of human kidney.

CRYM Antibody (clone 6B3) - Background

Specifically catalyzes the reduction of imine bonds in brain substrates that may include cystathionine ketimine (CysK) and lanthionine ketimine (LK). Binds thyroid hormone which is a strong reversible inhibitor. Presumably involved in the regulation of the free intracellular concentration of triiodothyronine and access to its nuclear receptors.

CRYM Antibody (clone 6B3) - References

- Segovia L.,et al.Mol. Vis. 3:9-9(1997).
Vie M.-P.,et al.Mol. Endocrinol. 11:1728-1736(1997).
Sperbeck S.J.,et al.Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.
Loftus B.J.,et al.Genomics 60:295-308(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).