

CRYL1 Rabbit pAb

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Catalog # AP55412

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y2S2
Predicted	Rat, Dog, Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35419
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CRYL1
Epitope Specificity	65-170/319
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Cytoplasmic
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The uronate cycle functions as an alternative glucose metabolic pathway, accounting for about 5% of daily glucose catabolism. The product of this gene catalyzes the dehydrogenation of L-gulonate into dehydro-L-gulonate in the uronate cycle. The enzyme requires NAD(H) as a coenzyme, and is inhibited by inorganic phosphate. A similar gene in the rabbit is thought to serve a structural role in the lens of the eye. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	51084
Other Names	Lambda-crystallin homolog, 1.1.1.45, L-gulonate 3-dehydrogenase, Gul3DH, CRYL1, CRY
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	CRYL1
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Synonyms	CRY
Function	Catalyzes the conversion of L-gulonate to 3-dehydro-L- gulonate (PubMed: 15809331 , PubMed: 40737316). It also exhibits low dehydrogenase activity toward L-3-hydroxybutyrate (HBA) and L-threonate (PubMed: 15809331). Utilizes NAD as the sole cosubstrate and shows no activity with NADP (PubMed: 40737316).
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:P14755}.
Tissue Location	Widely expressed, with highest levels in liver and kidney.

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.