T3HPD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	T3HPD, Polyclonal Antibody
Full Product Name	T3HPD rabbit pAb
Product Gene Name	anti-T3HPD antibody
Product Synonym Gene Name	L3HYPDH; C14orf149
Product Synonym Names	Trans-L-3-hydroxyproline dehydratase (EC 4.2.1.77)(Trans-3-hydroxy-l-proline dehydratase)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.62% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Preparation and Storage	Store at -20 degree C for ~1 year
Molecular Weight	38,138 Da
Chromosome Location	Chromosome: 14; NC_000014.8 (59925698..59951281, complement). Location: 14q23.1
OMIM	614811
3D Structure	ModBase 3D Structure for Q96EM0
Product Categories/Family for anti-T3HPD antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-T3HPD antibody	Western Blot (WB)
Application Notes for anti-T3HPD antibody	WB: 1:500-2000
Related Product Information for anti-T3HPD antibody	The protein encoded by this gene is a dehydratase that converts trans-3-hydroxy-L-proline to delta (1)-pyrroline-2-carboxylate. This enzyme may function to degrade dietary proteins that contain trans-3-hydroxy-L-proline as well as other proteins such as collagen IV. The encoded protein can be converted to an epimerase by changing a threonine to a cysteine at a catalytic site. [provided by RefSeq, Sep 2016]
Other Notes	Small volumes of anti-T3HPD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for T3HPD purchase	MBS8597588 is an antibody targeting T3HPD. Also known as T3HPD rabbit pAb. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for T3HPD. It may not necessarily be applicable to this product.

NCBI GI #	21389361
NCBI GeneID	112849

NCBI Accession #	NP_653182.1
UniProt Primary Accession #	Q96EM0
UniProt Secondary Accession #	Q96LJ5
UniProt Related Accession #	Q96EM0
GenBank Nucleotide #	NM_144581.1
NCBI Official Full Name	trans-L-3-hydroxyproline dehydratase
NCBI Official Synonym Full Names	L-3-hydroxyproline dehydratase (trans-)
NCBI Official Symbol	L3HYPDH
NCBI Official Synonym Symbols	C14orf149
UniProt Protein Name	Trans-L-3-hydroxyproline dehydratase
UniProt Synonym Protein Names	Trans-3-hydroxy-l-proline dehydratase
UniProt Gene Name	L3HYPDH
UniProt Synonym Gene Names	C14orf149
UniProt Entry Name	T3HPD_HUMAN
NCBI Protein Information	trans-L-3-hydroxyproline dehydratase; probable proline racemase; trans-3-hydroxy-l-proline dehydratase; trans-3-hydroxyl-L-proline dehydratase
UniProt Comments for T3HPD	L3HYPDH: Catalyzes the dehydration of trans-3-hydroxy-L-proline to delta-1-pyrroline-2-carboxylate (Pyr2C). May be required to degrade trans-3-hydroxy-L-proline from the diet and originating from the degradation of proteins such as collagen-IV that contain it. Belongs to the proline racemase family. Protein type: EC 4.2.1.77; Isomerase Chromosomal Location of Human Ortholog: 14q23.1 Molecular Function: trans-L-3-hydroxyproline dehydratase activity; proline racemase activity; hydro-lyase activity Biological Process: metabolic process
Research Articles on T3HPD	**1.** human trans-3-hydroxy-L-proline dehydratase is the first characterized member of a novel family of proline racemase-like enzymes
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