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TDO2/tryptophan 2,3-dioxygenase Rabbit pAb

Catalog # AP97182

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P48775
Other Accession	P48775
Predicted	Rat, Human, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	47872
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TDO2
Epitope Specificity	301-406/406
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the tryptophan 2,3-dioxygenase family.
SUBUNIT	Homotetramer (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	This gene encodes a heme enzyme that plays a critical role in tryptophan metabolism by catalyzing the first and rate-limiting step of the kynurenine pathway. Increased activity of the encoded protein and subsequent kynurenine production may also play a role in cancer through the suppression of antitumor immune responses, and single nucleotide polymorphisms in this gene may be associated with autism. [provided by RefSeq, Feb 2012]

Additional Information

Gene ID	6999
Other Names	HYPTRP; TDO; TO; TPH2; TRPO; T23O_HUMAN; TDO2; Tryptamin 2, 3-dioxygenase; Tryptophan oxygenase (TO | TRPO); Tryptophan pyrrolase; Tryptophanase; 1.13.11.11; tryptophan 2, 3-dioxygenase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	TDO2 {ECO:0000255|HAMAP-Rule:MF_03020}
Synonyms	TDO
Function	Heme-dependent dioxygenase that catalyzes the oxidative cleavage of the L-tryptophan (L-Trp) pyrrole ring and converts L- tryptophan to N-formyl-L-kynurenine. Catalyzes the oxidative cleavage of the indole moiety.

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