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TDO2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14344a

Product Information

Application	WB, E
Primary Accession	P48775
Other Accession	NP_005642.1
Reactivity	Human
Predicted	Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB32351
Calculated MW	47872
Antigen Region	1-30

Additional Information

Gene ID	6999
Other Names	Tryptophan 2, 3-dioxygenase {ECO:0000255|HAMAP-Rule:MF_03020}, TDO {ECO:0000255|HAMAP-Rule:MF_03020}, 1131111 {ECO:0000255|HAMAP-Rule:MF_03020}, Tryptamin 2, 3-dioxygenase {ECO:0000255|HAMAP-Rule:MF_03020}, Tryptophan oxygenase {ECO:0000255|HAMAP-Rule:MF_03020}, TO {ECO:0000255|HAMAP-Rule:MF_03020}, TRPO {ECO:0000255|HAMAP-Rule:MF_03020}, Tryptophan pyrrolase {ECO:0000255|HAMAP-Rule:MF_03020}, Tryptophanase {ECO:0000255|HAMAP-Rule:MF_03020}, TDO2 {ECO:0000255|HAMAP-Rule:MF_03020}, TDO
Target/Specificity	This TDO2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human TDO2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	TDO2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

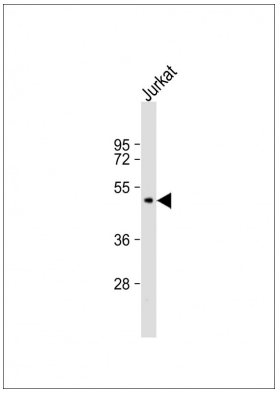
Background

Tryptophan 2,3-dioxygenase (EC 1.13.11.11) plays a role in catalyzing the first and rat-limiting step in the kynurenine pathway, the major pathway of tryptophan metabolism.[supplied by OMIM].

References

Capece, L., et al. J. Biol. Inorg. Chem. 15(6):811-823(2010)
Schmidt, S.K., et al. Eur. J. Immunol. 39(10):2755-2764(2009)
Roeske, D., et al. Mol. Psychiatry (2009) In press :
Miller, C.L., et al. Schizophr. Res. 113 (2-3), 259-267 (2009) :
Fukumura, E., et al. J. Biochem. 145(4):505-515(2009)

Images



Anti-TDO2 Antibody (N-term) at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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