

TDO2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TDO2.

Catalog # AT4199a

Product Information

Application	E
Primary Accession	P48775
Other Accession	NM_005651
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1C8
Calculated MW	47872

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	TDO2 (NP_005642, 307 a.a. ~ 405 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	TDO2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

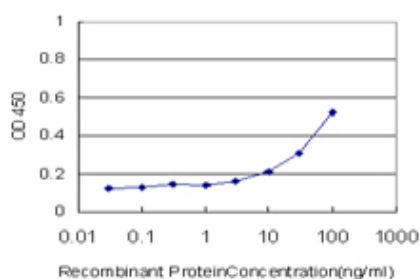
Background

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.

References

First genome-wide association scan on neurophysiological endophenotypes points to trans-regulation effects on SLC2A3 in dyslexic children. Roeske D, et al. *Mol Psychiatry*, 2009 Sep 29. PMID 19786962. Antimicrobial and immunoregulatory properties of human tryptophan 2,3-dioxygenase. Schmidt SK, et al. *Eur J Immunol*, 2009 Oct. PMID 19637229. Two complex genotypes relevant to the kynurenine pathway and melanotropin function show association with schizophrenia and bipolar disorder. Miller CL, et al. *Schizophr Res*, 2009 Sep. PMID 19502010. Cooperative binding of L-trp to human tryptophan 2,3-dioxygenase: resonance Raman spectroscopic analysis. Fukumura E, et al. *J Biochem*, 2009 Apr. PMID 19218188. A kinetic, spectroscopic, and redox study of human tryptophan 2,3-dioxygenase. Basran J, et al. *Biochemistry*, 2008 Apr 22. PMID 18370401.

Images



Detection limit for recombinant GST tagged TDO2 is approximately 10ng/ml as a capture antibody.

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