

TDO2 Antibody (monoclonal) (M01)
Mouse monoclonal antibody raised against a partial recombinant TDO2.
Catalog # AT4199a

Specification

TDO2 Antibody (monoclonal) (M01) - Product Information

Application	E
Primary Accession	P48775
Other Accession	NM_005651
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	47872

TDO2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 6999

Other Names

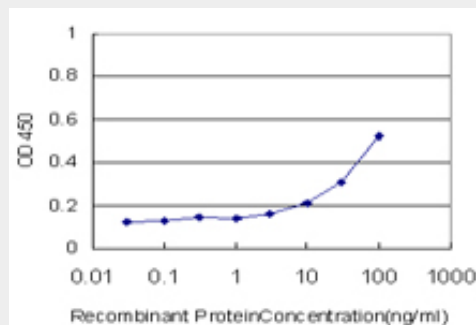
Tryptophan 2, 3-dioxygenase
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TDO
{ECO:0000255|HAMAP-Rule:MF_03020},
1131111
{ECO:0000255|HAMAP-Rule:MF_03020},
Tryptamin 2, 3-dioxygenase
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Tryptophan oxygenase
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TRPO
{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.

Format

Clear, colorless solution in phosphate



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

TDO2 Antibody (monoclonal) (M01) - Background

Tryptophan 2,3-dioxygenase (EC 1.13.11.11) plays a role in catalyzing the first and rate-limiting step in the kynurenine pathway, the major pathway of tryptophan metabolism.

TDO2 Antibody (monoclonal) (M01) - 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-tryptophan 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.

buffered saline, pH 7.2 .

PMID 18370401.

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.

**TDO2 Antibody (monoclonal) (M01) -
Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)