

For Research Use Only

# TDO2 Recombinant antibody

Catalog Number: 83236-2-RR



## Basic Information

<b>Catalog Number:</b> 83236-2-RR	<b>GenBank Accession Number:</b> BC005355	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 6999	<b>CloneNo.:</b> 240068C2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P48775	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> tryptophan 2,3-dioxygenase	
<b>Immunogen Catalog Number:</b> AG8531	<b>Calculated MW:</b> 406 aa, 48 kDa	
	<b>Observed MW:</b> 40-50 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : rat liver tissue,
<b>Species Specificity:</b> human, rat	

## Background Information

TDO2 (tryptophan 2,3-dioxygenase), IDO1 (indoleamine 2,3-dioxygenase 1) and IDO2 are three enzymes that catalyze the amino acid tryptophan into kynurenine in the kynurenine pathway (PMID: 23090118, 28469468). TDO2 plays an important role in neurological diseases such as Alzheimer's disease, Parkinson's disease and autism. Overexpression of TDO2 promoted tumor cell survival and was correlated with tumor grade and poor prognosis in triple negative breast cancer, brain tumors and esophageal squamous cell carcinoma. TDO2 may be a potential therapeutic target in some cancers. (PMID: 21976023, 30134247)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

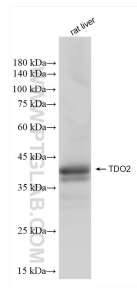
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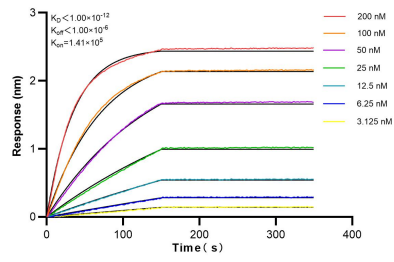
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## Selected Validation Data



rat liver tissue were subjected to SDS PAGE followed by western blot with 83236-2-RR (TDO2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83236-2-RR against Human TDO2 were performed. The affinity constant is below 1 pM.