

For Research Use Only

# TDO2 Recombinant antibody

Catalog Number: 83236-2-RR



## Basic Information

Catalog Number:

83236-2-RR

Size:

1000 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8531

GenBank Accession Number:

BC005355

GeneID (NCBI):

6999

UNIPROT ID:

P48775

Full Name:

tryptophan 2,3-dioxygenase

Calculated MW:

406 aa, 48 kDa

Observed MW:

40-50 kDa

Purification Method:

Protein A purification

CloneNo.:

240068C2

Recommended Dilutions:

WB 1:5000-1:50000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, rat

Positive Controls:

WB : rat liver tissue,

## 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

For technical support and original validation data for this product please contact:

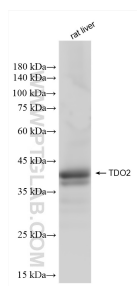
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

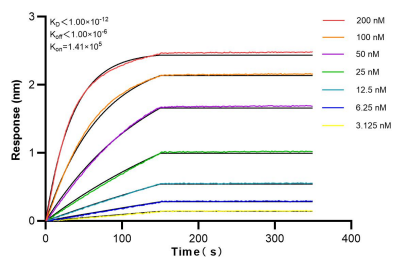
W: [ptgcn.com](http://ptgcn.com)

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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.