

For Research Use Only

TDO2 Polyclonal antibody

Catalog Number: 15880-1-AP

Featured Product

40 Publications



Basic Information

Catalog Number:

15880-1-AP

Concentration:

450 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG8642

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:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:100-1:400

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat, chicken

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse liver tissue, rat liver tissue

IHC : human liver cancer tissue, human liver tissue

IF/ICC : A431 cells,

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)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------------|-----------|----------------------|--------------|
| Susu Li | 34529208 | Transgenic Res | WB,IHC,FC,IF |
| Victoria L Wyckelsma | 34573075 | Antioxidants (Basel) | WB |
| Mizuho Sato | 36325028 | Int J Tryptophan Res | WB |

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:

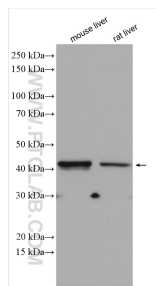
T: 4006900926

E: Proteintech-CN@ptglab.com

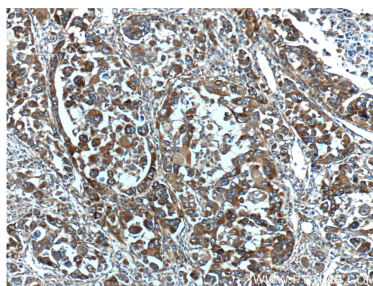
W: ptgcn.com

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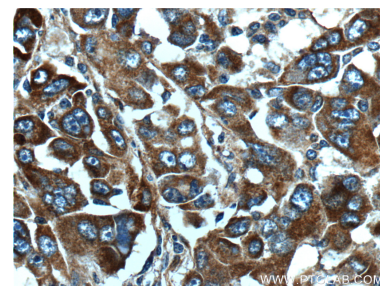
Selected Validation Data



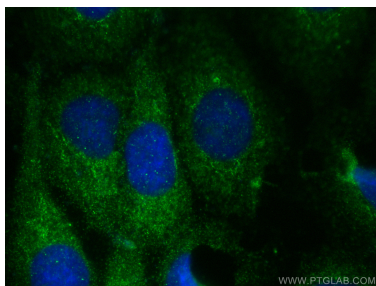
Various lysates were subjected to SDS PAGE followed by western blot with 15880-1-AP (TDO2 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15880-1-AP (TDO2 Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer tissue slide using 15880-1-AP (TDO2 Antibody) at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using TDO2 antibody (15880-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).