A12125

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IDO1 Rabbit mAb

Catalog No.: A12125 Recombinant 2 Publications

Basic Information

Observed MW
Refer to Figures

Calculated MW
45kDa

Category
Monoclonal Antibody

Applications
IHC-P,ELISA

Cross-Reactivity
Human,Mouse

Clone number
ARC0560

Background

This gene encodes indoleamine 2,3-dioxygenase (IDO) - a heme enzyme that catalyzes the first and rate-limiting step in tryptophan catabolism to N-formyl-kynurenine. This enzyme acts on multiple tryptophan substrates including D-tryptophan, L-tryptophan, 5-hydroxy-tryptophan, tryptamine, and serotonin. This enzyme is thought to play a role in a variety of pathophysiological processes such as antimicrobial and antitumor defense, neuropathology, immunoregulation, and antioxidant activity. Through its expression in dendritic cells, monocytes, and macrophages this enzyme modulates T-cell behavior by its peri-cellular catabolization of the essential amino acid tryptophan.

Recommended Dilutions

IHC-P	1:50 - 1:200
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
3620

Swiss Prot
P14902

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
IDO; INDO; IDO-1; IDO1

Contact

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Product Information

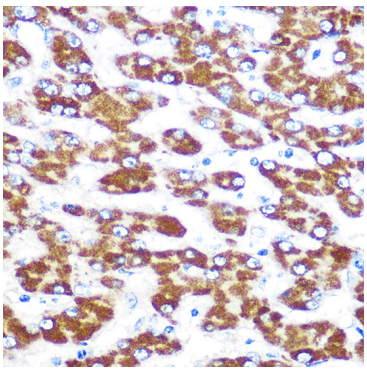
Source
Rabbit

Isotype
IgG

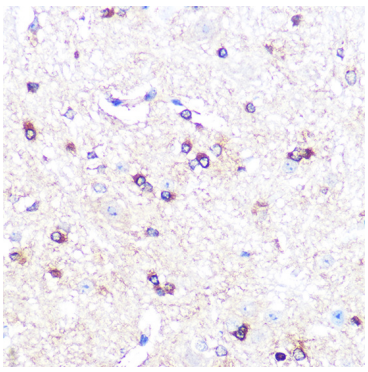
Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Immunohistochemistry analysis of paraffin-embedded Human liver using IDO1 Rabbit mAb (A12125) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spinal cord using IDO1 Rabbit mAb (A12125) at dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M PBS Buffer (pH 7.2) prior to IHC staining.