Indoleamine 2,3-dioxygenase 1 Polyclonal Antibody

Catalog No: #42217

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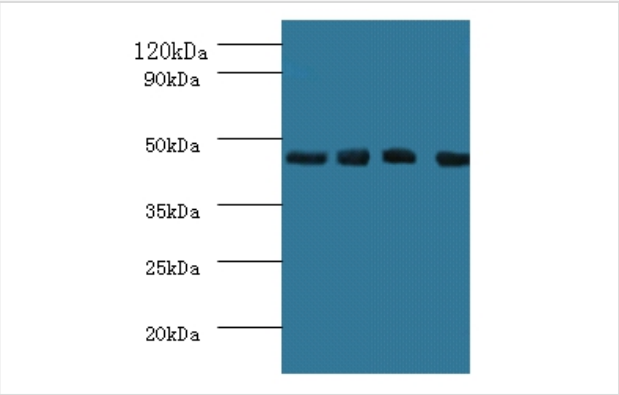
Description

Product Name	Indoleamine 2,3-dioxygenase 1 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Indoleamine 2,3-dioxygenase 1 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Indoleamine 2,3-dioxygenase 1 protein
Target Name	Indoleamine 2,3-dioxygenase 1
Other Names	Indoleamine-pyrrole 2, 3-dioxygenase IDO1 IDO, INDO
Accession No.	Swiss-Prot#: P14902
Uniprot	P14902
GeneID	3620;
Calculated MW	45kd
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: 1:500 - 1:1000

Images



Western blot
All lanes:Indoleamine 2,3-dioxygenase 1 antibody at 2ug/ml
Lane 1:Hela whole cell lysate
Lane 2:k562 whole cell lysate
Lane 3:A549 whole cell lysate
Lane 4:293T whole cell lysate
secondary
Goat polyclonal to rabbit at 1/10000 dilution
predicted band size :45kDa
observed band size :45kDa

Background

Catalyzes the first and rate limiting step of the catabolism of the essential amino acid tryptophan along the kynurenine pathway (PubMed:17671174). Involved in the peripheral immune tolerance, contributing to maintain homeostasis by preventing autoimmunity or immunopathology that would result from uncontrolled and overreacting immune responses (PubMed:25691885). Tryptophan shortage inhibits T lymphocytes division and accumulation of tryptophan catabolites induces T-cell apoptosis and differentiation of regulatory T-cells (PubMed:25691885).

References

[1]Molecular cloning, sequencing and expression of human interferon-gamma-inducible indoleamine 2,3-dioxygenase cDNA.Dai W., Gupta S.L. Biochem. Biophys. Res. Commun. 168:1-8(1990) [2]Primary structure of human indoleamine 2,3-dioxygenase deduced from

Note: This product is for in vitro research use only