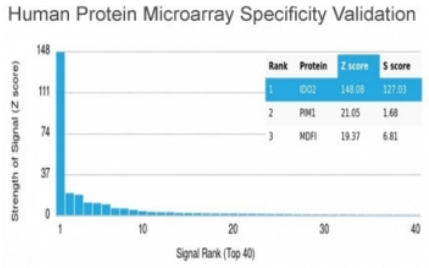
INDOL1 Antibody / IDO2 [clone IDO2/2639] (V9630)

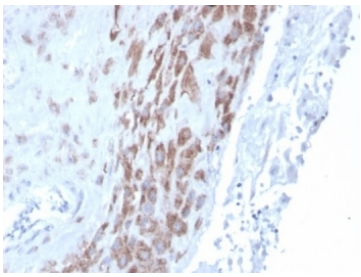
Catalog No.	Formulation	Size
V9630-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9630-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9630SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG, kappa
Clone Name	IDO2/2639
Purity	Protein A/G affinity
UniProt	Q6ZQW0
Localization	Cytoplasm
Applications	ELISA (order BSA-free format for coating) Immunohistochemistry (FFPE): 1-2ug/ml
Limitations	This INDOL1 antibody is available for research use only.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using INDOL1 antibody (clone IDO2/2639). These results demonstrate the foremost specificity of the IDO2/2639 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



IHC staining of FFPE human placental tissue with INDOL1 antibody (clone IDO2/2639) at 2ug/ml in PBS for 30min RT. HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

Description

IDO2 is a presumptive immunomodulatory gene based on its close structural relationship to IDO1 and its expression in a variety of antigen-presenting cell types. Both IDO1 and IDO2 will catabolize tryptophan to kynurenine. Biochemical studies indicate that both enzymes are similarly robust in catabolic activity, although the in vitro conditions required for IDO2 to manifest the same level of activity differ somewhat from IDO1. However, whether IDO2 is active as a tryptophan catabolizing enzyme in human dendritic cells has been disputed. Further work is needed to conclusively determine that IDO1 and IDO2 are similar in their preference for substrates and reaction pathways to generate product. A non-redundant function for IDO2 relative to IDO1 is suggested by their rather distinct expression patterns and response to extracellular stimuli.

This antibody can be compared with our IDO2 Antibody (clone IDO2/2640) for consistent detection of IDO2 across tryptophan metabolism and immune regulatory studies.

Application Notes

Optimal dilution of the INDOL1 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 200-350 was used as the immunogen for the INDOL1 antibody.

Storage

Aliquot the INDOL1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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