



Anti-IDO1 (full length) polyclonal antibody (DPAB-DC1716)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.[provided by RefSeq, Feb 2011]
Immunogen	IDO1 (AAH27882, 1 a.a. ~ 403 a.a) full-length recombinant protein with GST tag. The sequence is MAHAMENSWTISKEYHIDEEVGFALPNPQENLPDFYNDWMFIAKHLPDLIESGQLRERVE KLNMLSIDHLTDHKSQRLARLVLCITMAYVWGKGHDVRKVLPRNIAPYQCQLSKKLEL PPILVYADCVLANWKKKDPNKPLTYENMDVLFSDRGDCSKGFFLVSLLEIAAASAIKV IPTVFKAMQMQRDTLLKALLEIASCLEKALQVFHQIHDHVNPKAFFSVLRIYLSGWKGN PQLSDGLVYEGFWEDPKEFAGGSAGQSSVFQCFDVLLGIQQTAGGGHAAQFLQDMRRYMP PAHRNFLCSLESNPVREFVLSKGDAGLREAYDACVKALVSLRSYHLQIVTKYILIPASQ QPKENKTSEDPSKLEAKGTGGTDLMNFLKTVRSTTEKSLLKEG
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	IDO1 indoleamine 2,3-dioxygenase 1 [Homo sapiens (human)]
Official Symbol	IDO1
Synonyms	IDO1; indoleamine 2,3-dioxygenase 1; IDO; INDO; IDO-1; indole 2,3-dioxygenase; indolamine 2,3 dioxygenase; indoleamine-pyrrole 2,3-dioxygenase;
Entrez Gene ID	3620
Protein Refseq	NP_002155
UniProt ID	P14902
Chromosome Location	8p12-p11
Pathway	African trypanosomiasis; Metabolism; NAD biosynthesis II (from tryptophan); Tryptophan metabolism
Function	electron carrier activity; heme binding; indoleamine 2,3-dioxygenase activity; metal ion binding