Data Sheet (Cat.No.TMAB-00907)

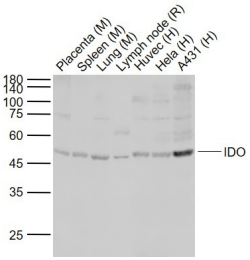
Anti-IDO1 Polyclonal Antibody 2

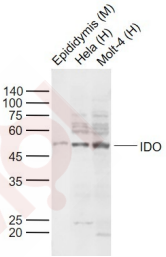
Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Molecular Weight:	Theoretical: 45 kDa. Actual: 48 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Sample: Lane 1: Mouse Placenta tissue lysates Lane 2: Mouse Spleen tissue lysates Lane 3: Mouse Lung tissue lysates Lane 4: Rat LympHnode tissue lysates Lane 5: Human Huvec cell lysates Lane 6: Human Hela cell lysates Lane 7: Human A431 cell lysates Primary: Anti-IDO (TMAB-00907) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 47 kDa 2. Sample: Lane 1: Mouse Epididymis tissue lysates Lane 2: Human Hela cell lysates Lane 3: Human Molt-4 cell lysates Primary: Anti-IDO (TMAB-00907) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 45 kDa Observed band size: 48 kDa





Application:	WB

Recommended WB: 1:500-2000

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: mouse IDO1

Antigen Species: Mouse

Synonyms: indoleamine 2,3-dioxygenase 1;IDO-1;Indoleamine 2,3-dioxygenase;IDO;INDO

Biology Area: Lipoprotein metabolism,Inflammatory mediators,Amino acid metabolism,Amino Acids

Research 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. [provided by RefSeq, Feb 2011]

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