

Datasheet: AHP833

Description:	SHEEP ANTI HUMAN INDOLEAMINE 2,3-DIOXYGENASE
Specificity:	INDOLEAMINE 2,3-DIOXYGENASE
Other names:	IDO
Format:	Ig Fraction
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 ml

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen		▪		
Immunohistology - Paraffin (1)	▪			
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting	▪			1/1000

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Species Cross Reactivity	Reacts with: Marmoset, Rhesus Monkey N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.
Product Form	Ig Fraction - liquid

Antiserum Preparation Antisera to human indoleamine dioxygenase (IDO) were raised by repeated immunisation

of sheep with highly purified antigen. Ig fraction prepared by ammonium sulphate precipitation.

Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	Total protein concentration 27.1 mg/ml
Immunogen	Recombinant human indoleamine 2,3-dioxygenase.
External Database Links	UniProt: P14902 Related reagents Entrez Gene: 3620 IDO1 Related reagents
Synonyms	IDO, INDO
RRID	AB_2123541
Specificity	Sheep anti Human Indoleamine 2,3-Dioxygenase antibody recognizes human indoleamine 2,3-dioxygenase (IDO), an enzyme that is responsible for converting tryptophan to kynurenines. IDO is expressed by a wide variety of tissues and IDO can be upregulated by interferon gamma. IDO modulates levels of the amino acid tryptophan, which is vital for cell growth, but is also involved in the suppression of the immune response. Reports suggest that IDO is involved in the suppression of the immune response to tumours and blocking the IDO pathway may be a potential target for immunotherapy.
References	<ol style="list-style-type: none">1. Genescà, M. <i>et al.</i> (2012) Live-attenuated lentivirus immunization modulates innate immunity and inflammation while protecting rhesus macaques from vaginal simian immunodeficiency virus challenge. J Virol. 86 (17): 9188-200.2. Drenzek, J.G. <i>et al.</i> (2008) Expression of indoleamine 2,3-dioxygenase in the rhesus monkey and common marmoset. J Reprod Immunol. 78 (2): 125-33.3. von Bergwelt-Baildon, M.S. <i>et al.</i> (2006) CD25 and indoleamine 2,3-dioxygenase are up-regulated by prostaglandin E2 and expressed by tumor-associated dendritic cells <i>in vivo</i>: additional mechanisms of T-cell inhibition. Blood. 108: 228-37.4. Scheler, M. <i>et al.</i> (2007) Indoleamine 2,3-dioxygenase (IDO): the antagonist of type I interferon-driven skin inflammation? Am J Pathol. 171: 1936-43.5. Popov, A. <i>et al.</i> (2006) Indoleamine 2,3-dioxygenase-expressing dendritic cells form suppurative granulomas following <i>Listeria monocytogenes</i> infection. J Clin Invest. 116: 3160-70.6. Torres, M.I. <i>et al.</i> (2007) Tryptophan metabolism and indoleamine 2,3-dioxygenase expression in coeliac disease. Clin Exp Immunol. 148: 419-24.7. Popov, A. <i>et al.</i> (2008) Infection of myeloid dendritic cells with <i>Listeria monocytogenes</i>

leads to the suppression of T cell function by multiple inhibitory mechanisms. [J Immunol. 181: 4976-88.](#)

8. von Bubnoff, D. *et al.* (2012) Indoleamine 2,3-dioxygenase expression in early keratocyte neoplasia of the lower lip correlates to the degree of cell atypia. [Pathol Int. 62: 105-11.](#)

9. von Bubnoff, D. *et al.* (2011) Indoleamine 2,3-dioxygenase-expressing myeloid dendritic cells and macrophages in infectious and noninfectious cutaneous granulomas. [J Am Acad Dermatol. 65 \(4\): 819-32.](#)

Further Reading 1. Munn, D.H. & Mellor, A.L. (2004) IDO and tolerance to tumors. [Trends Mol Med. 10 \(1\): 15-8.](#)

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: 10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) [Biotin](#)

Donkey Anti Sheep IgG (STAR88...) [DyLight®488](#), [HRP](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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