

Goat Anti-INDOL1 Antibody
Peptide-affinity purified goat antibody
Catalog # AF2190a**Specification**

Goat Anti-INDOL1 Antibody - Product Information

Application	WB
Primary Accession	O6ZQW0
Other Accession	NP_919270 , 169355
Reactivity	Human
Predicted	Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	45424

Goat Anti-INDOL1 Antibody - Additional Information**Gene ID** 169355**Other Names**

Indoleamine 2, 3-dioxygenase 2, IDO-2, 1.13.11.-, Indoleamine 2, 3-dioxygenase-like protein 1, Indoleamine-pyrrole 2, 3-dioxygenase-like protein 1, IDO2, INDOL1

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-INDOL1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-INDOL1 Antibody - Protein Information**Name** IDO2 ([HGNC:27269](#))**Function**

Catalyzes the first and rate limiting step of the catabolism of the essential amino acid tryptophan along the kynurenine pathway (PubMed:17671174). Involved in immune regulation. May not play a significant role in tryptophan-related tumoral resistance (PubMed:25691885).

Tissue Location

Detected in liver, small intestine, spleen, placenta, thymus, lung, brain, kidney, and colon (PubMed:17671174) Also expressed at low level in testis and thyroid. Not expressed in the majority of human tumor samples (>99%) (PubMed:25691885)

Goat Anti-INDOL1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-INDOL1 Antibody - Images

AF2190a (0.5 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer) with (B) and without (A) blocking with the immunising peptide. Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-INDOL1 Antibody - Background

Along with the enzymes encoded by the INDO (MIM 147435) and TDO2 (MIM 191070) genes, the enzyme encoded by the INDOL1 gene metabolizes tryptophan in the kynurenine pathway (Ball et al., 2007 [PubMed 17499941]).

Goat Anti-INDOL1 Antibody - References

Induction of indoleamine 2, 3-dioxygenase by death receptor activation contributes to apoptosis of melanoma cells via mitochondrial damage-dependent ROS accumulation. Cetindere T, et al. Cell Signal, 2010 Feb. PMID 19799997.

High activity of indoleamine 2,3 dioxygenase enzyme predicts disease severity and case fatality in bacteremic patients. Huttunen R, et al. Shock, 2010 Feb. PMID 19487973.

Genotyping and expression analysis of IDO2 in human pancreatic cancer: a novel, active target. Witkiewicz AK, et al. J Am Coll Surg, 2009 May. PMID 19476837.

Novel tryptophan catabolic enzyme IDO2 is the preferred biochemical target of the antitumor indoleamine 2,3-dioxygenase inhibitory compound D-1-methyl-tryptophan. Metz R, et al. Cancer Res, 2007 Aug 1. PMID 17671174.

Characterization of an indoleamine 2,3-dioxygenase-like protein found in humans and mice. Ball HJ, et al. Gene, 2007 Jul 1. PMID 17499941.