

Product datasheet

Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] ab228472

Recombinant RabMAb

[1 References](#) [11 Images](#)

Overview

Product name	Anti-Indoleamine 2, 3-dioxygenase antibody [SP282]
Description	Rabbit monoclonal [SP282] to Indoleamine 2, 3-dioxygenase
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Indoleamine 2, 3-dioxygenase aa 350 to the C-terminus. The exact sequence is proprietary. Database link: P14902
Positive control	IHC-P: Human tonsil, colon, colon adenocarcinoma, pancreatic adenocarcinoma, ovarian adenocarcinoma, endometrial adenocarcinoma, stomach adenocarcinoma and skin squamous cell carcinoma tissues. WB: SK-OV-3 and HEK-293 cell lysates.
General notes	<p>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p> <p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team</p>

ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP282
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228472** in the following tested applications.

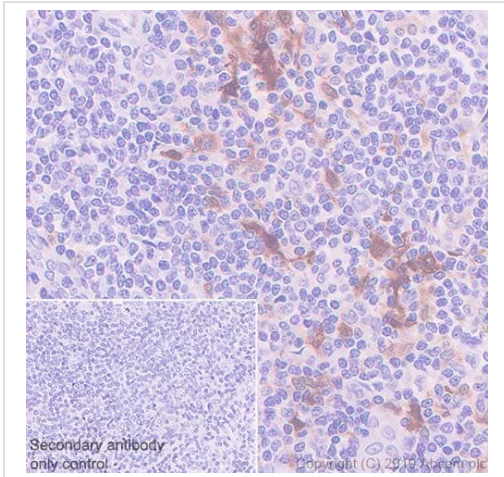
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Primary antibody incubation for 10 minutes at room temperature.
WB		Use a concentration of 0.141 µg/ml. Predicted molecular weight: 45 kDa.

Target

Function	Catalyzes the cleavage of the pyrrol ring of tryptophan and incorporates both atoms of a molecule of oxygen.
Pathway	Amino-acid degradation; L-tryptophan degradation via kynurenine pathway; L-kynurenine from L-tryptophan: step 1/2.
Sequence similarities	Belongs to the indoleamine 2,3-dioxygenase family.

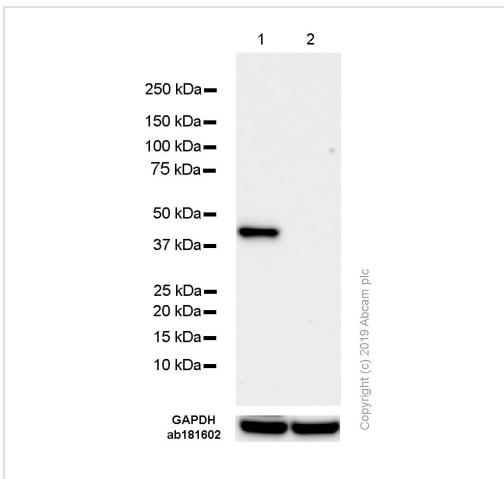
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human tonsil tissue sections labeling Indoleamine 2, 3-dioxygenase with ab228472 at 1/100 dilution (1.00 µg/ml). Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 1 (pH 6.0) for 20mins. Rabbit specific IHC polymer detection kit HRP/DAB was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the human tonsil, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab228472 for 10 mins at room temperature.



Western blot - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)

All lanes : Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472) at 0.141 µg/ml (purified)

Lane 1 : SK-OV-3 (human ovarian cancer epithelial cell) whole cell lysate

Lane 2 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

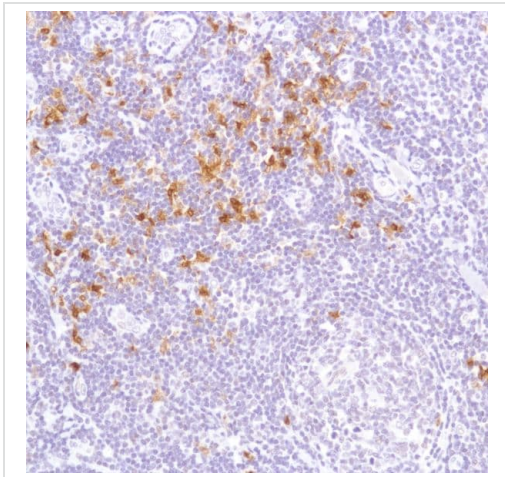
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 0.05 µg/ml

Predicted band size: 45 kDa

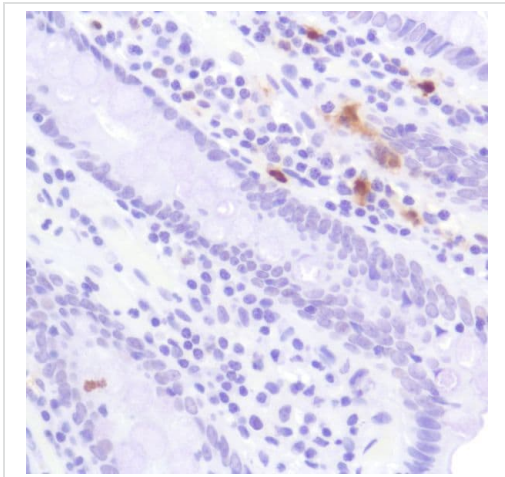
Observed band size: 45 kDa

Blocking/Diluting Buffer and concentration: 5% NFDM /TBST



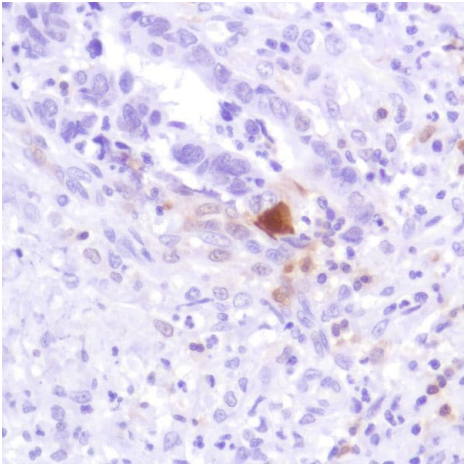
Formalin-fixed, paraffin-embedded human tonsil tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



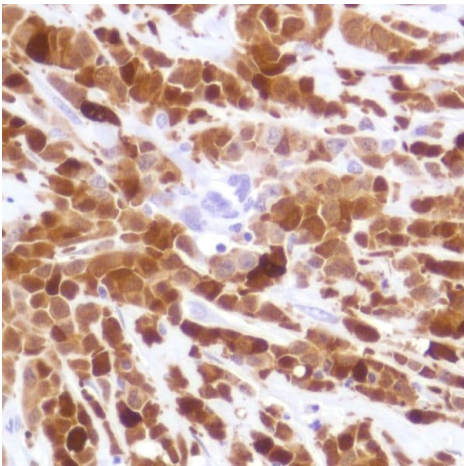
Formalin-fixed, paraffin-embedded human colon tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



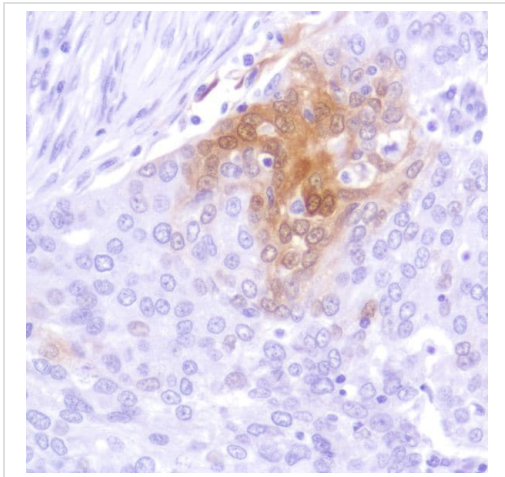
Formalin-fixed, paraffin-embedded human colon adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



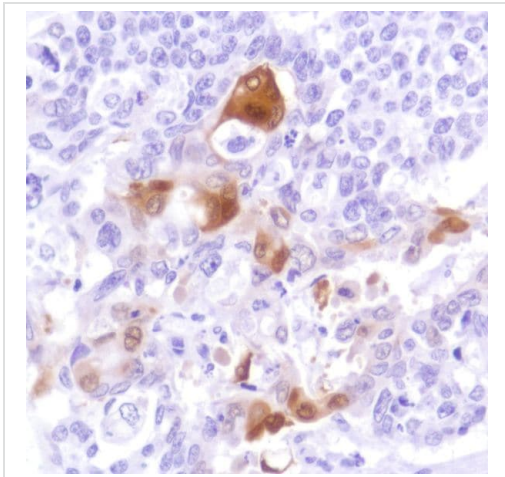
Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



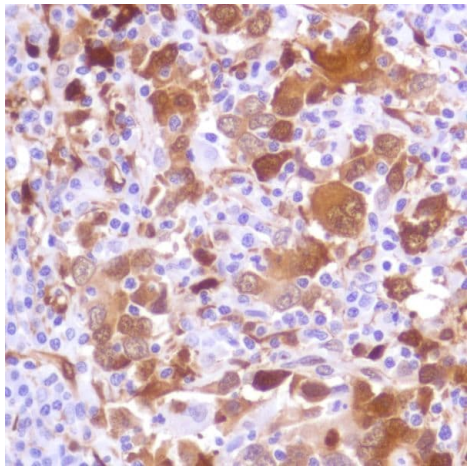
Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



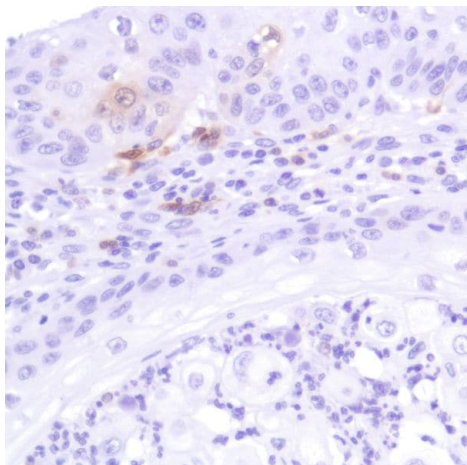
Formalin-fixed, paraffin-embedded human endometrial adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



Formalin-fixed, paraffin-embedded human stomach adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)



Formalin-fixed, paraffin-embedded human skin squamous cell carcinoma tissue stained for Indoleamine 2, 3-dioxygenase using ab228472 at 1/100 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP282] (ab228472)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Indoleamine 2, 3-dioxygenase antibody [SP282]
(ab228472)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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