

Product datasheet

Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free ab245737

Recombinant RabMAb

11 Images

Overview

Product name	Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free
Description	Rabbit monoclonal [SP260] to Indoleamine 2, 3-dioxygenase - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, Flow Cyt, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human Indoleamine 2, 3-dioxygenase aa 350 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P14902
Positive control	Flow Cytometry: HeLa cells treated with IFN-gamma. IHC-P: Human tonsil, thymus, colon, stomach adenocarcinoma, pancreatic adenocarcinoma, endometrial adenocarcinoma and ovarian adenocarcinoma tissue.
General notes	<p>FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</p> <p>Ab245737 is the carrier-free version of ab228468. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>ab245737 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

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.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

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.

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.

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 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. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP260
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab245737** in the following tested applications.

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

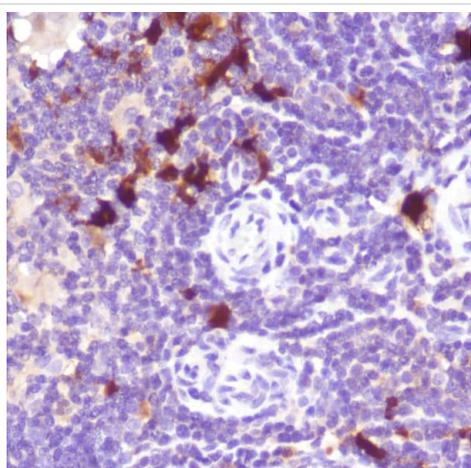
Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. Incubate for 30 minutes at 4 degrees
IHC-P		Use at an assay dependent concentration. Boil tissue section in EDTA buffer, pH 8.0 for 10 minutes followed by cooling at room temperature for 20 minutes. Incubate for 10 minutes at room temperature.

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.

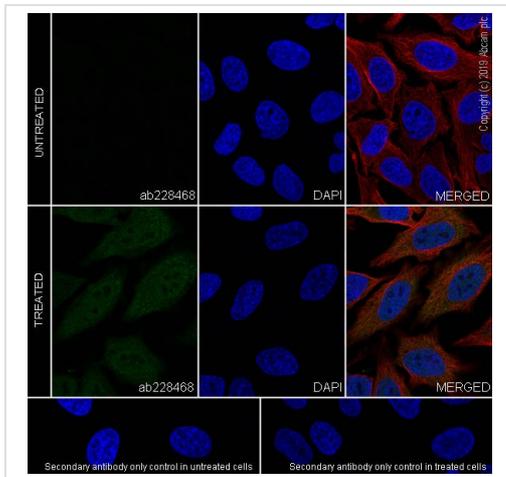
Images



Formalin-fixed, paraffin-embedded human thymus tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).

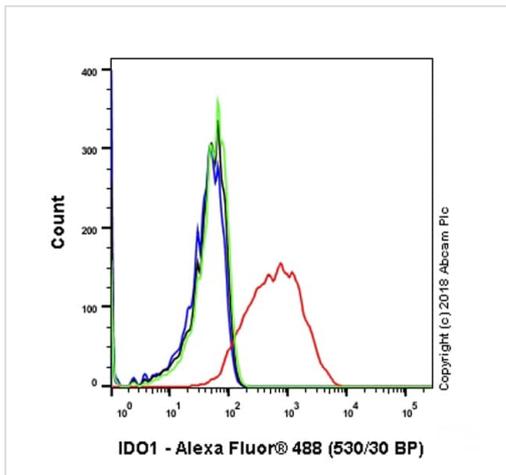
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free ([ab245737](#))



Immunocytochemistry/ Immunofluorescence - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Immunocytochemistry/ Immunofluorescence analysis of HeLa (human cervix adenocarcinoma epithelial cell) treated with 50 ng/ml IFN-gamma for 16 h cells labeling Indoleamine 2, 3-dioxygenase with purified [ab228468](#) at 1/15(9.4µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/ml). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

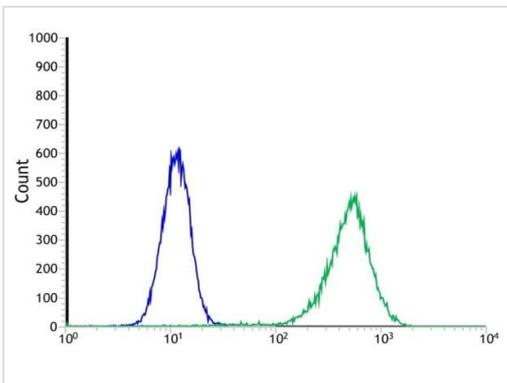
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab228468](#)).



Flow Cytometry - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Flow cytometry analysis of HeLa cells treated with 50ng/ml IFN-gamma for 16hours labeling Indoleamine 2, 3-dioxygenase with purified [ab228468](#) at 1/200 dilution (0.705 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) / Black. Unlabeled control - Unlabelled cells / blue. Untreated cells (Green).

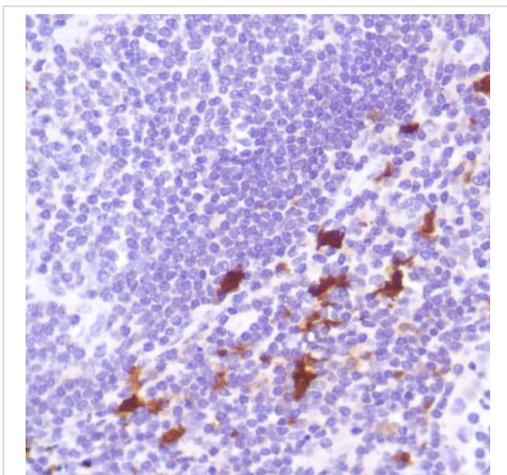
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab228468](#)).



Flow Cytometry - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Flow Cytometry analysis of IFN-gamma treated HeLa (human epithelial cell line from cervix adenocarcinoma) cells, labeling Indoleamine 2, 3-dioxygenase with [ab228468](#) 1/400 dilution (green) compared to a negative control rabbit IgG (blue).

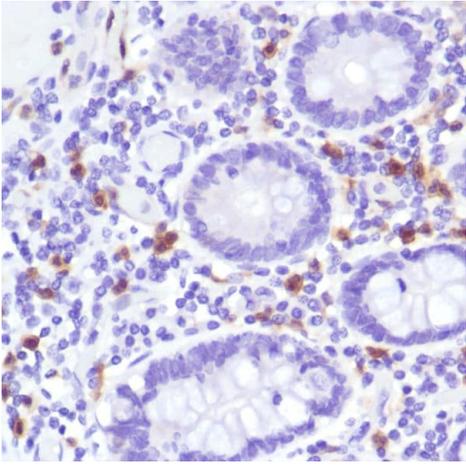
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

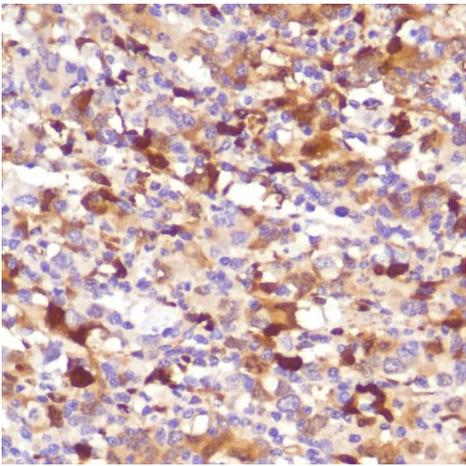
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Formalin-fixed, paraffin-embedded human colon tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

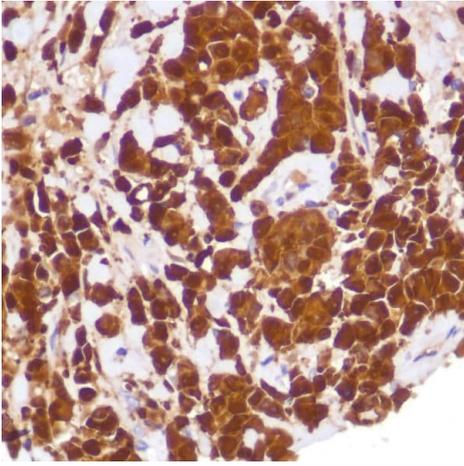
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Formalin-fixed, paraffin-embedded human stomach adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

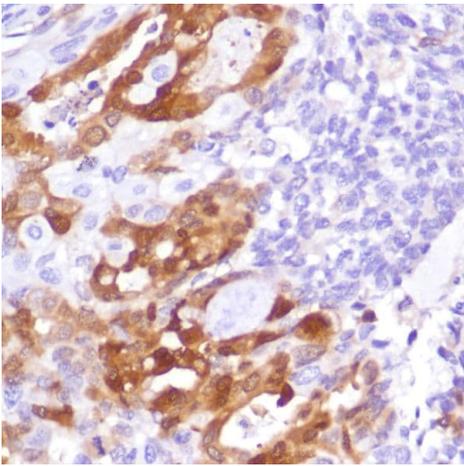
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Formalin-fixed, paraffin-embedded human pancreatic adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

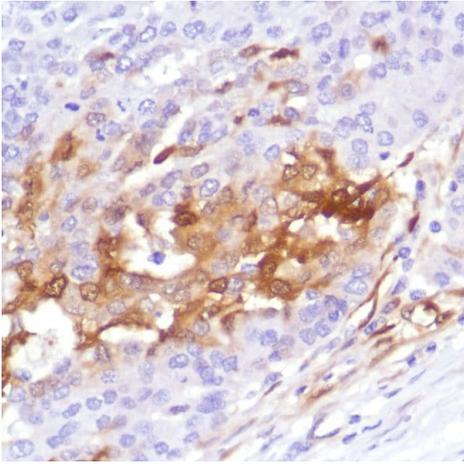
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Formalin-fixed, paraffin-embedded human endometrial adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).



Formalin-fixed, paraffin-embedded human ovarian adenocarcinoma tissue stained for Indoleamine 2, 3-dioxygenase with [ab228468](#) at 1/100 dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab228468](#)).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

Why choose a recombinant antibody?



Anti-Indoleamine 2, 3-dioxygenase antibody [SP260] - BSA and Azide free (ab245737)

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

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