abcam

Product datasheet

Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free ab237783

Recombinant RabMAb

6 Images

Overview

Product name	Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free
Description	Rabbit monoclonal [EPR22070] to IL-4I1/LAO - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP, Flow Cyt, ICC/IF, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant fragment within Human IL-4I1/LAO aa 400 to the C-terminus. The exact sequence is proprietary. Database link: Q96RQ9
Positive control	IHC-P: Human tonsil tissue.
General notes	Ab237783 is the carrier-free version of ab222102. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. 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. ab237783 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

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	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22070
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab237783** in the following tested applications.

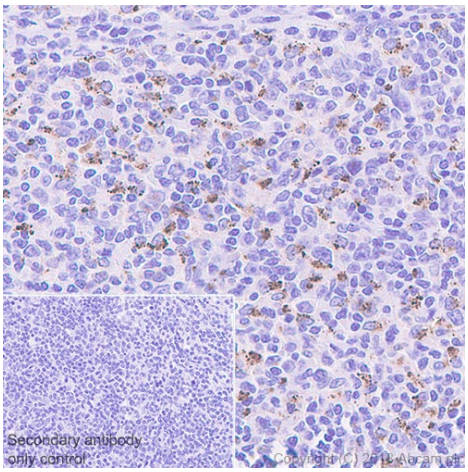
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 63 kDa.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Relevance	IL-4-induced gene-1 (Il-4i1 or Fig1) is expressed in primarily immune tissues and genetically maps to a region of susceptibility to autoimmune disease. The predicted Il-4i1 protein (IL-4I1) sequence is most similar to apoptosis-inducing protein and Apoxin I, which are both l-amino acid oxidases.
Cellular localization	Cytoplasmic

Images



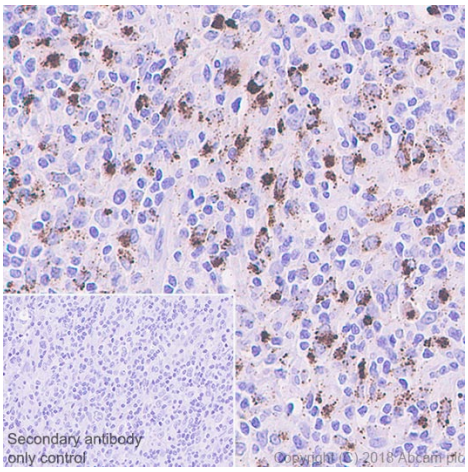
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free (ab237783)

Immunohistochemical analysis of paraffin-embedded human difuse large B-cell lymphoma tissue stained for IL-4I1/LAO with ab222102 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Granular cytoplasmic staining in human diffuse large B-cell lymphoma (PMID: 19436310) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab222102).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



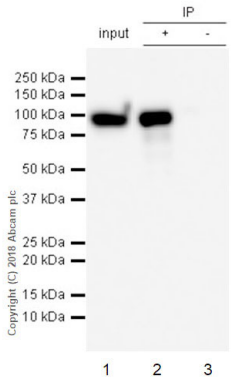
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free (ab237783)

Immunohistochemical analysis of paraffin-embedded human Hodgkin's lymphoma tissue stained for IL-4I1/LAO with ab222102 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Granular cytoplasmic staining in human Hodgkin's lymphoma (PMID: 19436310) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab222102).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunoprecipitation - Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free (ab237783)

IL-4I1/LAO was immunoprecipitated from 0.35mg HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with IL-4I1/LAO expression vector containing a myc-GFP-tag whole cell lysate with ab222102 at 1/30 dilution. Western blot was perfromed from the immunoprecipitate using ab222102 at 1/1000 dilution, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1/5000 dilution.

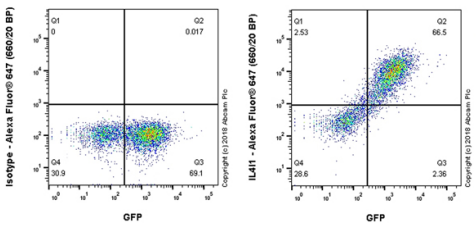
Lane 1: HEK-293T transfected with IL-4I1/LAO expression vector containing a myc-GFP-tag whole cell lysate 10µg (Input).

Lane 2: ab222102 IP in HEK-293 transfected with IL-4I1/LAO expression vector containing a myc-GFP-tag whole cell lysate (+).

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab222102 in HEK-293T transfected with IL-4I1/LAO expression vector containing a myc-GFP-tag whole cell lysate (-).

Blocking and dilution buffer and concentration: 5% NFDM/TBST.
Exposure time: 1 seconds.

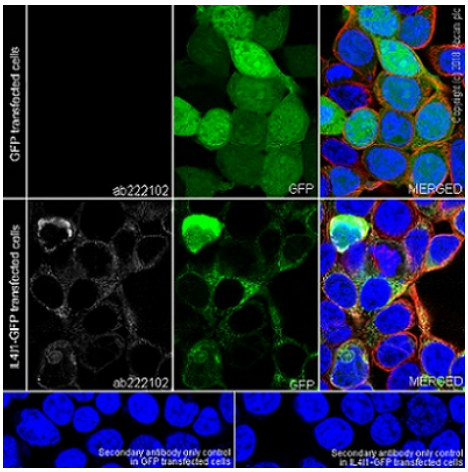
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab222102).



Flow Cytometry - Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free (ab237783)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with IL-4I1/LAO expression vector containing a myc-GFP-tag labeling IL-4I1/LAO with ab222102 at 1/500 dilution (Right) compared to Rabbit monoclonal IgG (ab172730) (Left) isotype control. Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/2000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab222102).

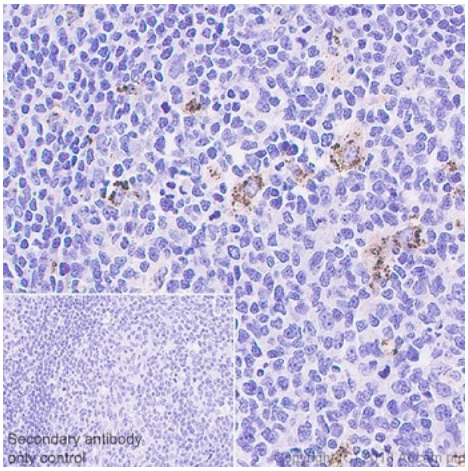


Immunocytochemistry/ Immunofluorescence - Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free (ab237783)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilzed HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells labeling IL-4I1/LAO (white) with ab222102 at 1/50 dilution, followed by ab150079 AlexaFluor®647 Goat anti-Rabbit secondary at 1/1000 dilution. Confocal image showing cytoplasmic staining in HEK-293T cells transfected with GFP-tagged IL-4I1/LAO expression vector. The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150079 AlexaFluor®647 Goat anti-Rabbit secondary at 1/1000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab222102).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IL-4I1/LAO antibody [EPR22070] - BSA and Azide free (ab237783)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue stained for IL-4I1/LAO with ab222102 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Granular cytoplasmic staining in macrophages of human tonsil (PMID: 17356132; PMID: 19436310) is observed. Counterstained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab222102).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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