

Product datasheet

Anti-VSIG4 antibody [EPR22576-70] ab252933

Recombinant RabMAb

10 Images

Overview

| | |
|----------------------------|--|
| Product name | Anti-VSIG4 antibody [EPR22576-70] |
| Description | Rabbit monoclonal [EPR22576-70] to VSIG4 |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-Fr, WB, IHC-P, IP Unsuitable for: Flow Cyt or ICC/IF |
| Species reactivity | Reacts with: Mouse, Human |
| Immunogen | Recombinant fragment. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: Human liver and placenta tissue lysate; Jurkat and THP-1 cell lysate; Mouse liver tissue lysate. His-tagged human VSIG4 recombinant protein (aa 19-232). IHC-P: Human liver, placenta and lung tissue; Mouse lung tissue. IHC-Fr: Mouse liver tissue. IP: Human placenta lysate. |
| General notes | This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR22576-70 |

Isotype

IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab252933 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-Fr | | 1/100. |
| WB | | 1/1000. Detects a band of approximately 37, 50 kDa (predicted molecular weight: 44 kDa). |
| IHC-P | | 1/500. Perform heat mediated antigen retrieval using ab208572 retrieval buffer. |
| IP | | 1/30. |

Application notes

Is unsuitable for Flow Cyt or ICC/IF.

Target

Function

Phagocytic receptor, strong negative regulator of T-cell proliferation and IL2 production. Potent inhibitor of the alternative complement pathway convertases.

Tissue specificity

Abundantly expressed in several fetal tissues. In adult tissues, highest expression in lung and placenta. Expressed in resting macrophages.

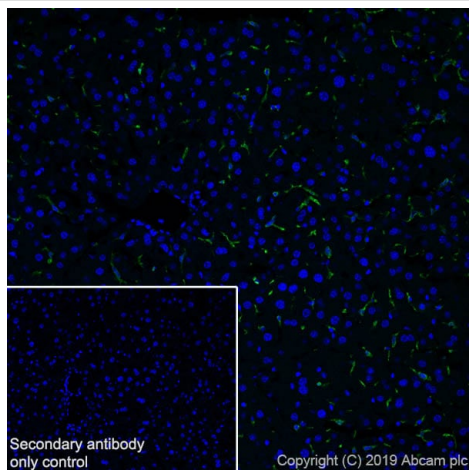
Sequence similarities

Contains 2 Ig-like (immunoglobulin-like) domains.

Cellular localization

Membrane.

Images

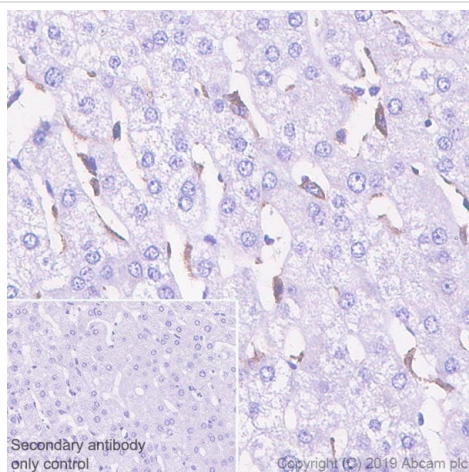


Immunohistochemistry (Frozen sections) - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

Immunohistochemical analysis of 4% PFA fixed 0.2% Triton X-100 permeabilized frozen mouse liver tissue labeling ab252933 with VSIG4 at 1/100 dilution followed by [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution. Positive staining on Kupffer cells of mouse liver (PMID: 17016562) is observed. The nuclear counterstain is DAPI (Blue).

Heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody was [ab150077](#) AlexaFluor®488 Goat anti-Rabbit secondary at 1/1000 dilution.

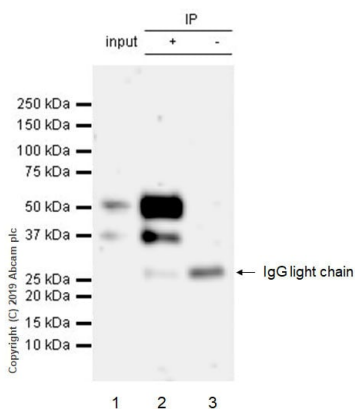


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling VSIG4 with ab252933 at 1/500 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on Kupffer cells of human liver (PMID: 17016562) is observed. Counterstained with Hematoxylin.

Heat mediated antigen retrieval using [ab208572](#) retrieval buffer.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).



Immunoprecipitation - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

VSIG4 was immunoprecipitated from 0.35 mg of human placenta lysate with ab252933 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab252933 at 1/500 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used as secondary antibody at 1/1000 dilution.

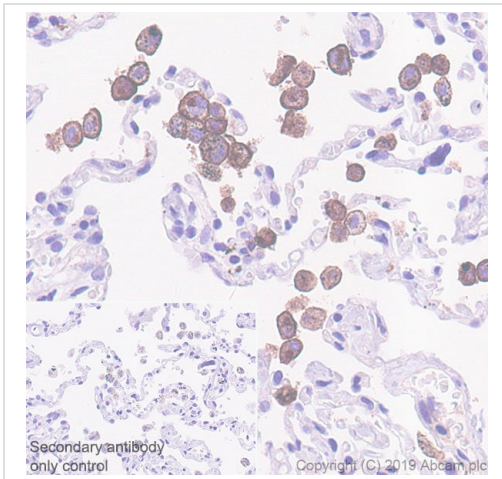
Lane 1: Human placenta lysate 10 µg (Input).

Lane 2: ab252933 IP in human placenta lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab252933 in human placenta lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST. Exposure time: 3 minutes.

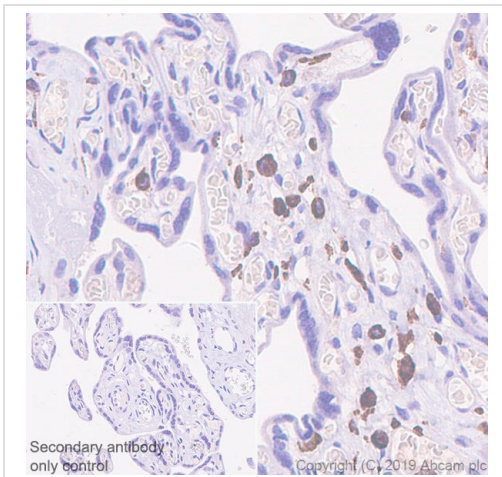
The molecular weight observed is consistent with what has been described in previous literature (PMID: 16009265, 17016562).



Immunohistochemical analysis of paraffin-embedded human lung tissue labeling VSIG4 with ab252933 at 1/500 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Membranous staining on macrophages of human lung (PMID: 17016562) is observed. Counterstained with Hematoxylin. Heat mediated antigen retrieval using [ab208572](#) retrieval buffer.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VSIG4 antibody [EPR22576-70] ([ab252933](#))

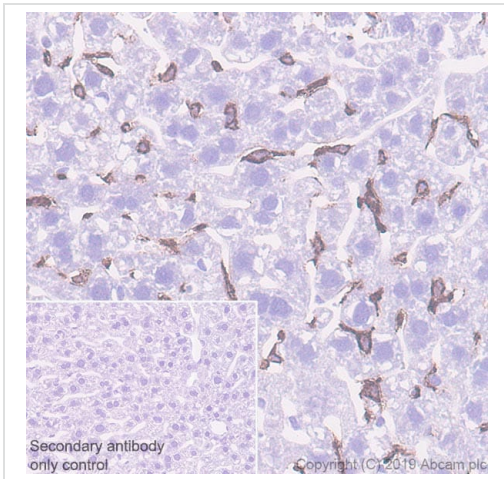


Immunohistochemical analysis of paraffin-embedded human placenta tissue labeling VSIG4 with ab252933 at 1/500 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on stroma of human placenta (PMID: 17016562) is observed. Counterstained with Hematoxylin.

Heat mediated antigen retrieval using [ab208572](#) retrieval buffer.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VSIG4 antibody [EPR22576-70] ([ab252933](#))

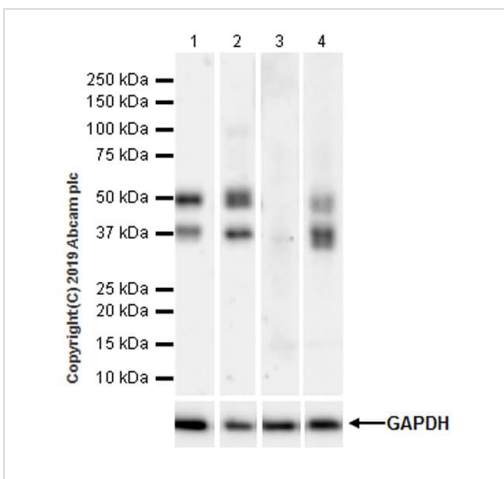


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling VSIG4 with ab252933 at 1/500 dilution followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on Kupffer cells of mouse liver (PMID: 17016562) is observed. Counterstained with Hematoxylin.

Heat mediated antigen retrieval using ab208572 retrieval buffer.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101).



Western blot - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

All lanes : Anti-VSIG4 antibody [EPR22576-70] (ab252933) at 1/1000 dilution

Lane 1 : Human liver tissue lysate

Lane 2 : Human placenta tissue lysate

Lane 3 : Jurkat (human T cell leukemia cell line from peripheral blood), whole cell lysate

Lane 4 : THP-1 (human monocytic leukemia cell line), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

Lanes 1-2 : VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/1000 dilution

Lanes 3-4 : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 44 kDa

Observed band size: 37,50 kDa

Blocking/diluting buffer and concentration: 5% NFDm/TBST.

Exposure time: 125 seconds.

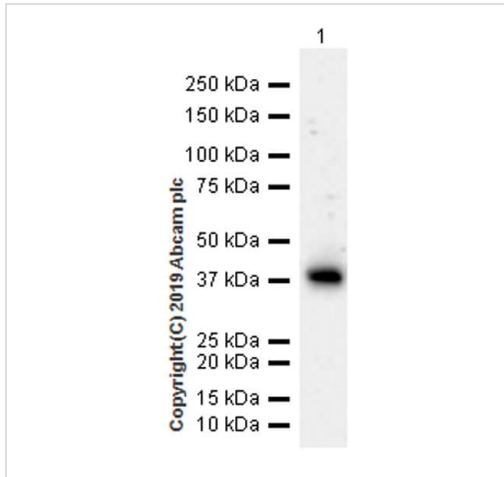
The molecular weight observed is consistent with what has been described in previous literatures (PMID: 16009265, 17016562)

The expression profile observed is consistent with the literatures

(PMID: 16009265, 17016562).

Negative control: Jurkat (PMID: 16009265).

This blot was developed using a higher sensitivity ECL substrate.



Western blot - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

Anti-VSIG4 antibody [EPR22576-70] (ab252933) at 1/1000 dilution + Mouse liver tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 44 kDa

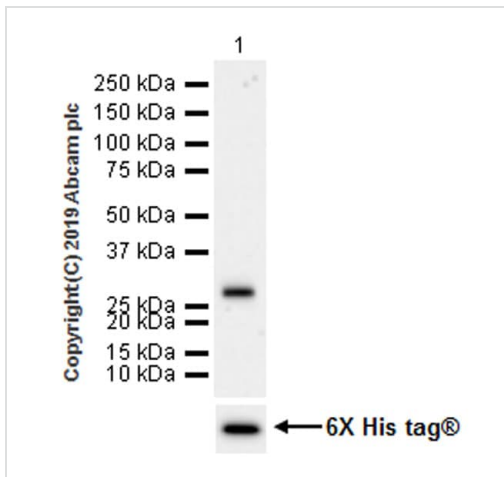
Observed band size: 37 kDa

Blocking/diluting buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

The expression profile and molecular weight observed is consistent with what has been described in the literature (PMID: 17016562, PMID: 17016562).

This blot was developed using a higher sensitivity ECL substrate.



Western blot - Anti-VSIG4 antibody [EPR22576-70] (ab252933)

Anti-VSIG4 antibody [EPR22576-70] (ab252933) at 1/1000 dilution + His-tagged human VSIG4 recombinant protein (aa 19-232) 10 ng

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/100000 dilution

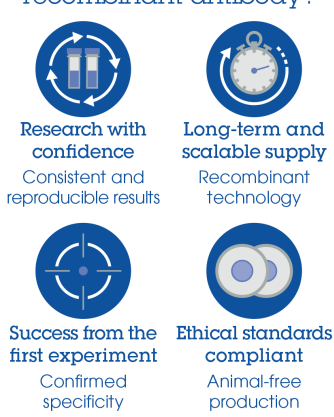
Predicted band size: 44 kDa

Observed band size: 27 kDa

Blocking /diluting buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

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-VSIG4 antibody [EPR22576-70] (ab252933)

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

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