abcam

Product datasheet

Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free ab267392

KO VALIDATED | Recombinant | RabMAb

5 Images

Overview

Product name	Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free
Description	Rabbit monoclonal [EPR22411-279] to Extracellular matrix protein 1 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, IP **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: 4T1, LLC1, Hepa1-6 whole cell lysate. Mouse and rat skin and liver lysates. Wild-type mouse liver lysate. Flow Cyt: 4T1 cells. IP: Mouse liver and lung whole cell lysate.
General notes	ab267392 is the carrier-free version of ab253185. 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. This product 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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR22411-279
Isotype	IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab267392 in the following tested applications.

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

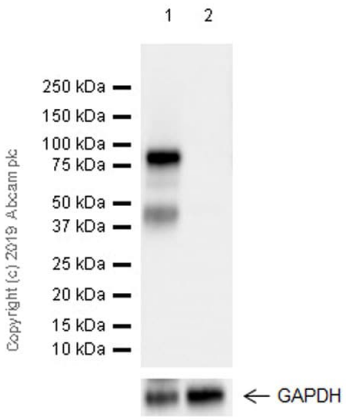
Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 48, 85 kDa (predicted molecular weight: 63 kDa).
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

Function	Involved in endochondral bone formation as negative regulator of bone mineralization. Stimulates the proliferation of endothelial cells and promotes angiogenesis. Inhibits MMP9 proteolytic activity.
Tissue specificity	Expressed in breast cancer tissues. Little or no expression observed in normal breast tissues. Expressed in skin; wide expression is observed throughout the dermis with minimal expression in the epidermis.
Involvement in disease	Defects in ECM1 are the cause of lipoid proteinosis (LiP) [MIM:247100]; also known as lipoid proteinosis of Urbach and Wiethe or hyalinosis cutis et mucosae. LiP is a rare autosomal recessive disorder characterized by generalized thickening of skin, mucosae and certain viscera. Classical features include beaded eyelid papules and laryngeal infiltration leading to hoarseness. Histologically, there is widespread deposition of hyaline material and disruption/reduplication of basement membrane.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



Western blot - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free (ab267392)

All lanes : Anti-Extracellular matrix protein 1 antibody [EPR22411-279] (ab253185) at 1/1000 dilution

Lane 1 : Wild-type mouse liver lysate
Lane 2 : ECM1 knockout mouse liver lysate

Lysates/proteins at 20 µg per lane.

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

Predicted band size: 63 kDa
Observed band size: 48,85 kDa

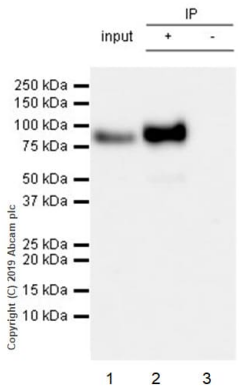
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab253185).

The wild-type and ECM1 knockout mouse liver lysates were kindly provided by an anonymous collaborator.

ab253185 was shown to specifically react with Extracellular matrix protein 1 in wild-type mouse liver as signal was lost in ECM1 knockout liver. Wild-type and ECM1 knockout samples were subjected to SDS-PAGE. ab253185 and ab181602 (Rabbit anti-GAPDH loading control) were incubated 1 hour at room temperature at 1/1000 dilution and 1/200,000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) secondary antibody at 1/50,000 dilution for 1 hour at room temperature before imaging. The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument using the ECL technique.

Exposure time 7.75 secs.

Blocking/Dilution buffer: 5% NFDM/TBST.



Immunoprecipitation - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free (ab267392)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab253185).

Extracellular matrix protein 1 was immunoprecipitated from 0.35 mg mouse lung lysate with ab253185 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab253185 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.

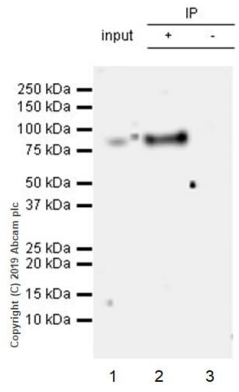
Lane 1: Mouse lung lysate 10µg.

Lane 2: ab253185 IP in mouse lung lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab253185 in mouse lung lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds.



Immunoprecipitation - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free (ab267392)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab253185).

Extracellular matrix protein 1 was immunoprecipitated from 0.35 mg mouse liver lysate with ab253185 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab253185 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/5000 dilution.

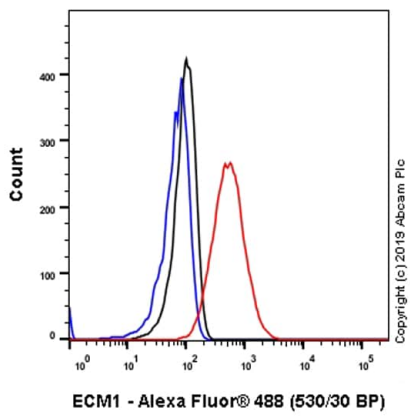
Lane 1: Mouse liver lysate 10µg.

Lane 2: ab253185 IP in mouse liver lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab253185 in mouse liver lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

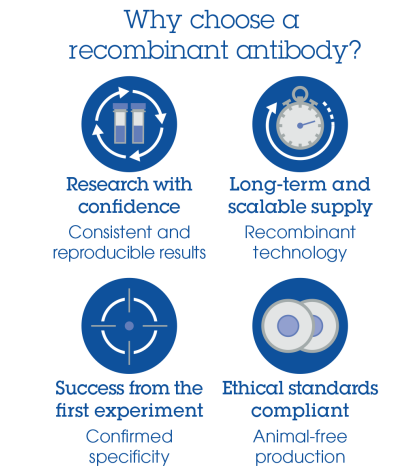
Exposure time: 3 mins.



Flow Cytometry (Intracellular) - Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free (ab267392)

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (ab253185).

Flow cytometric analysis of 4% paraformaldehyde fixed 90%, methanol permeabilized 4T1 (mouse mammary gland carcinoma epithelial cell) cells labeling Extracellular matrix protein 1 with ab253185 at 1/500 (Red) compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.



Anti-Extracellular matrix protein 1 antibody [EPR22411-279] - BSA and Azide free (ab267392)

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