

Anti-SPARC antibody [EPR20121] - Low endotoxin, Azide free ab223156

KO VALIDATED Recombinant RabMAB

3 Images

Overview

Product name	Anti-SPARC antibody [EPR20121] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EPR20121] to SPARC - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IP Unsuitable for: ICC/IF
Species reactivity	Reacts with: Human Does not react with: Mouse
Immunogen	Recombinant full length protein. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: SH-SY5Y and A-375 whole cell lysates; Human bone giant cell tumor lysate; Human serum and brain lysate. Flow Cyt (intra): A-375 cells. IP: A-375 whole cell lysate.
General notes	<p>ab223156 is the carrier-free version of ab207743.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</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>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</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> <p>Our RabMAB[®] technology is a patented hybridoma-based technology for making rabbit</p>

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Our **Low endotoxin, azide-free formats** have low endotoxin level (≤ 1 EU/ml, determined by the LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

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	EPR20121
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab223156 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. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Detects a band of approximately 43 kDa (predicted molecular weight: 35 kDa).
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF.

Target

Function Appears to regulate cell growth through interactions with the extracellular matrix and cytokines. Binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell membranes. There are two calcium binding sites; an acidic domain that binds 5 to 8 Ca(2+) with a low affinity and an EF-hand loop that binds a Ca(2+) ion with a high affinity.

Sequence similarities Belongs to the SPARC family.
Contains 1 EF-hand domain.
Contains 1 follistatin-like domain.
Contains 1 Kazal-like domain.

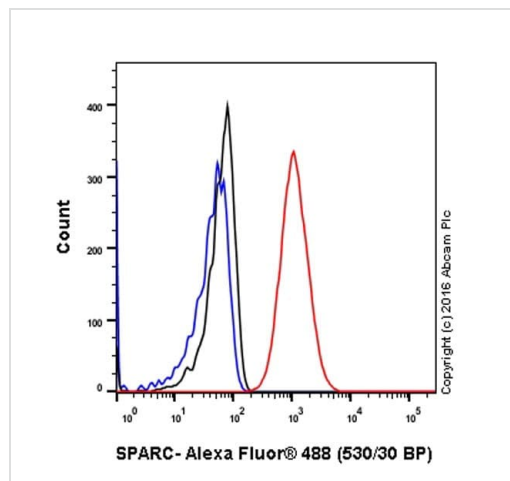
Developmental stage

Expressed at high levels in tissues undergoing morphogenesis, remodeling and wound repair.

Cellular localization

Secreted > extracellular space > extracellular matrix > basement membrane. In or around the basement membrane.

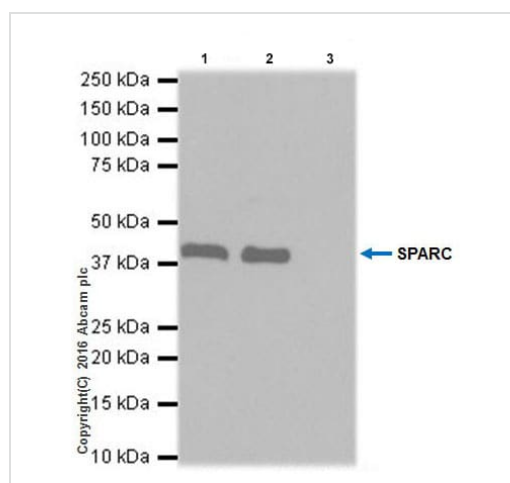
Images



Flow Cytometry (Intracellular) - Anti-SPARC antibody [EPR20121] - Low endotoxin, Azide free (ab223156)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed A-375 (Human malignant melanoma cell line) cells labeling SPARC with **ab207743** at 1/70 dilution (red) compared with a rabbit monoclonal IgG isotype control (**ab172730**; black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody; blue). Goat anti rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab207743**).



Immunoprecipitation - Anti-SPARC antibody [EPR20121] - Low endotoxin, Azide free (ab223156)

SPARC was immunoprecipitated from 0.35 mg of A-375 (Human malignant melanoma cell line) whole cell lysate with **ab207743** at 1/40 dilution.

Western blot was performed from the immunoprecipitate using **ab207743** at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: A-375 whole cell lysate, 10µg (Input).

Lane 2: **ab207743** IP in A-375 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab207743** in A-375 whole cell lysate.

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

Exposure time: 3 minutes.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab207743**).

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

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

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