abcam

ab248114

Anti-SCRIBBLE antibody [EPR4140(2)] - BSA and Azide free

Recombinant | RabMAb | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR4140(2)
Purification technique	Affinity purification Protein A
Concentration	1.023 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Not recommended

Species	Mouse, Rat, Human
Dilution info	-

Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information SCRIB

Function	Scaffold protein involved in different aspects of polarized cell differentiation regulating epithelial and neuronal morphogenesis and T-cell polarization (PubMed:15182672, PubMed:16344308, PubMed:16965391, PubMed:18641685, PubMed:18716323, PubMed:19041750, PubMed:27380321). Via its interaction with CRTAM, required for the late phase polarization of a subset of CD4+ T-cells, which in turn regulates TCR-mediated proliferation and IFNG and IL22 production (By similarity). Plays a role in cell directional movement, cell orientation, cell sheet organization and Golgi complex polarization at the cell migration front (By similarity). Promotes epithelial cell layer barrier function via maintaining cell-cell adhesion (By similarity). Most probably functions in the establishment of apico-basal cell polarity (PubMed:16344308, PubMed:19041750). May function in cell proliferation regulating progression from G1 to S phase and as a positive regulator of apoptosis for instance during acinar morphogenesis of the mammary epithelium (PubMed:16965391, PubMed:19041750). May regulate cell invasion via MAPK-mediated cell migration and adhesion (PubMed:18641685, PubMed:18716323). May play a role in exocytosis and in the targeting of synaptic vesicles to synapses (PubMed:15182672). Functions as an activator of Rac GTPase activity (PubMed:15182672).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab248114 is the carrier-free version of ab125080.

Patented technology

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

What are the advantages of a recombinant monoclonal antibody?

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 batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility
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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	SCRIBBLE also known as SCRIB or Scribble homolog is a protein that mainly functions in cell polarity and adhesion. It has a mass of about 215 kDa. SCRIBBLE interacts with other cellular structures to maintain apical-basal polarity. Researchers observe its expression in several tissue types especially in epithelial tissues where maintaining cell polarity is important. SCRIBBLE acts as a scaffold that links signaling molecules and components of membranes facilitating the organization of molecular assemblies on the plasma membrane.
Biological function summary	SCRIBBLE contributes significantly to cell orientation and tissue architecture. It is a critical component of the Scribble complex which also includes the proteins LGL1 and DLG1. This complex modulates cell junctions and the establishment of cell polarity. SCRIBBLE plays roles in processes such as wound healing and neural growth by modulating cell migration. It also influences epithelial-mesenchymal transition (EMT) a process important in development and cancer metastasis.
Pathways	SCRIBBLE is integral in the regulation of the Hippo signaling pathway. Proper function of this pathway is necessary for controlling organ size and suppressing tumorigenesis. SCRIBBLE interacts with proteins such as YAP and TAZ which act as transcriptional co-activators within the Hippo pathway. Additionally SCRIBBLE is linked to the Wnt signaling pathway where it interacts with Disheveled proteins impacting processes such as cell fate and proliferation.
Associated diseases and disorders	SCRIBBLE is implicated in cancer progression particularly in breast and colorectal cancers. Disruption in SCRIBBLE's function or expression can lead to loss of cell polarity and increased invasiveness contributing to tumor development. In breast cancer its interaction with the protein LATS2 in the Hippo pathway is important for controlling cell proliferation and apoptosis. Abnormal SCRIBBLE expression is also associated with neural tube defects where proper cell polarity and signaling are required for normal neural development.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

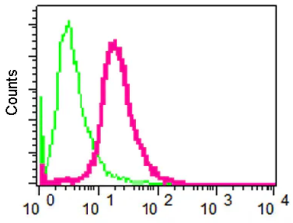
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

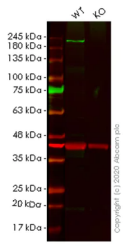
3 product images



Flow Cytometry (Intracellular) - Anti-SCRIBBLE antibody [EPR4140(2)] - BSA and Azide free (ab248114)

SCRIBBLE Flow Cytometry (Intracellular) staining using rabbit Anti-SCRIBBLE antibody

This data was developed using ab125080, the same antibody clone in a different buffer formulation.
ab125080 at 1/100, staining SCRIBBLE in permeabilized 293T cells by intracellular flow cytometry (red), compared with a negative control Rabbit IgG antibody (green).



Western blot - Anti-SCRIBBLE antibody [EPR4140(2)] - BSA and Azide free (ab248114)

SCRIBBLE Western blot staining using rabbit Anti-SCRIBBLE antibody

This data was developed using 125080, the same antibody clone in a different buffer formulation. **Lanes 1-2:** Merged signal (red and green). Green - ab125080 observed at 240 kDa. Red - loading control ab8245 observed at 36 kDa.

ab125080 Anti-SCRIBBLE antibody [EPR4140(2)] was shown to specifically react with SCRIBBLE in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265190 (knockout cell lysate ab257660) was used. Wild-type and SCRIBBLE knockout samples were subjected to SDS-PAGE. ab125080 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed

with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.
All lanes:
Western blot - Anti-SCRIBBLE antibody [EPR4140(2)] (ab125080) at 1/500 dilution

Lane 1:
Wild-type HeLa cell lysate at 20 µg

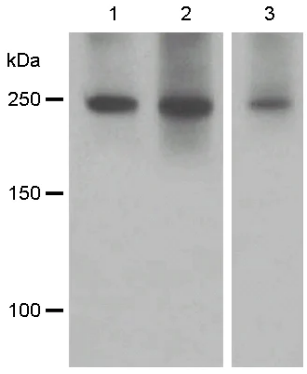
Lane 2:
Western blot - Human SCRIB (SCRIBBLE) knockout HeLa cell lysate (ab257660) at 20 µg

Secondary

All lanes:
Western blot - Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 175 kDa

Observed band size: 240 kDa



Western blot - Anti-SCRIBBLE antibody [EPR4140(2)] - BSA and Azide free (ab248114)

This data was developed using ab125080, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-SCRIBBLE antibody [EPR4140(2)] (ab125080) at 1/1000 dilution

Lane 1:
293T cell lysate at 10 µg

Lane 2:
HeLa cell lysate at 10 µg

Lane 3:
MCF7 cell lysate at 10 µg

Secondary

All lanes:
Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 175 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.