abcam

Product datasheet

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

KO VALIDATED Recombinant RabMAb

4 Images

Overview

Product name	Anti-SCRIBBLE antibody [EPR4140(2)] - BSA and Azide free
Description	Rabbit monoclonal [EPR4140(2)] to SCRIBBLE - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB **Unsuitable for:** IHC-P or IP
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	293T, HeLa and MCF7 cell lysates; permeabilized 293T cells.
General notes	ab248114 is the carrier-free version of **ab125080**. 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. 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. 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. 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	EPR4140(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab248114 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 250 kDa (predicted molecular weight: 175 kDa).

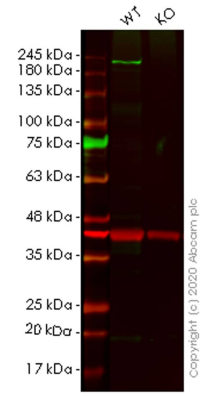
Application notes Is unsuitable for IHC-P or IP.

Target

Function	Scaffold protein involved in different aspects of polarized cells differentiation regulating epithelial and neuronal morphogenesis. Most probably functions in the establishment of apico-basal cell polarity. 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. May also function in cell migration and adhesion and hence regulate cell invasion through MAPK signaling. May play a role in exocytosis and in the targeting synaptic vesicles to synapses. Functions as an activator of Rac GTPase activity.
Tissue specificity	Expressed in kidney, skeletal muscles, liver, lung, breast, intestine, placenta and skin mainly in epithelial cells (at protein level).
Sequence similarities	Belongs to the LAP (LRR and PDZ) protein family. Contains 16 LRR (leucine-rich) repeats. Contains 4 PDZ (DHR) domains.
Post-translational modifications	Ubiquitinated; targeted for UBE3A-dependent multiubiquitination in the presence of high-risk HPV E6 proteins and degraded.
Cellular localization	Cell membrane. Cell junction > adherens junction. Cytoplasm. Targeting to cell-cell junctions which

is CDH1-dependent is required for the pro-apoptotic activity. Localizes to neuronal post- and pre-synaptic regions.

Images



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

All lanes : Anti-SCRIBBLE antibody [EPR4140(2)] (**ab125080**) at 1/500 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : SCRIB knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

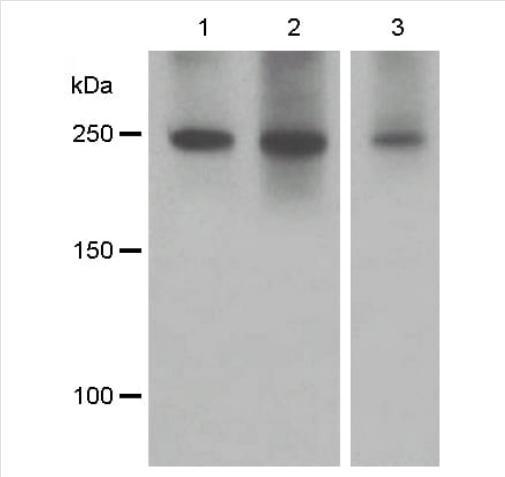
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 175 kDa
Observed band size: 240 kDa

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.



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

All lanes : Anti-SCRIBBLE antibody [EPR4140(2)] (**ab125080**) at 1/1000 dilution

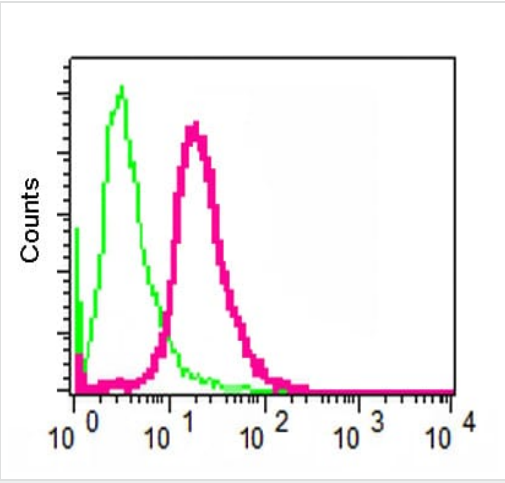
Lane 1 : 293T cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : MCF7 cell lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 175 kDa

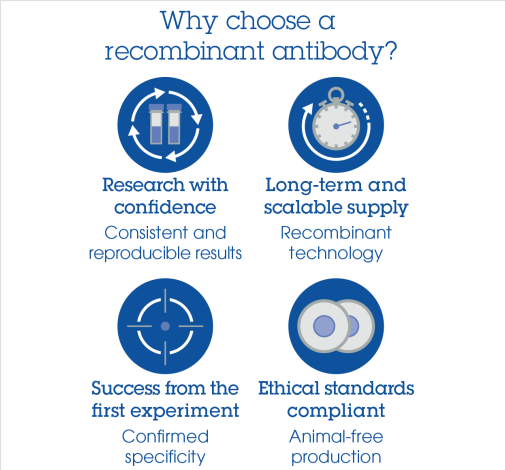
This data was developed using **ab125080**, the same antibody clone in a different buffer formulation.



Flow Cytometry (Intracellular) - 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.

ab125080 at 1/100, staining SCRIBBLE in permeabilized 293T cells by intracellular flow cytometry (red), compared with a negative control Rabbit IgG antibody (green).



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

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