abcam

ab62539

Anti-CRMP2 antibody [1B1]

KO Validated

Key facts

Isotype	IgG2a
Host species	Mouse
Storage buffer	Constituents: 1.21% Tris, 1% Sucrose, 0.375% Glycine
Form	Liquid
Clonality	Monoclonal
Immunogen	Synthetic Peptide within Human DPYSL2. The exact immunogen used to generate this antibody is proprietary information. Database link Q16555
Clone number	1B1
Purification technique	Affinity purification Protein A
Specificity	Does not react with CRMP-1, CRMP-3, CRMP-4 or CRMP-5.
Light chain type	kappa
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	1/100
Notes	ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Predicted

Species	Mouse
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	1/500 - 1/5000
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Target data

See full target information DPYSL2

Function	Plays a role in neuronal development and polarity, as well as in axon growth and guidance, neuronal growth cone collapse and cell migration. Necessary for signaling by class 3 semaphorins and subsequent remodeling of the cytoskeleton. May play a role in endocytosis.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

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

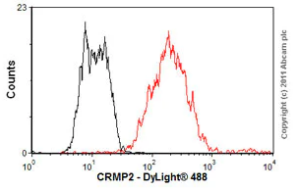
We do not recommend this combination. It is not covered by our product promise.

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

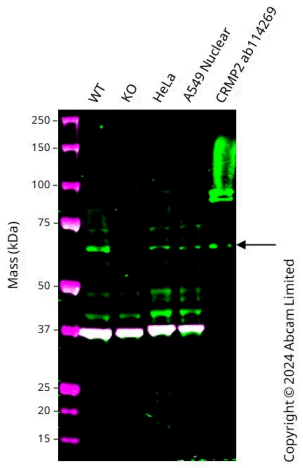


Flow Cytometry - Anti-CRMP2 antibody [1B1] (ab62539)

CRMP2 Flow Cytometry staining using mouse Anti-CRMP2 antibody

Overlay histogram showing SH-SY5Y cells stained with ab62539 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab62539, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution

for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.



Western blot - Anti-CRMP2 antibody [1B1] (ab62539)

CRMP2 Western blot staining using mouse Anti-CRMP2 antibody

Western blot: Anti-DPYSL2 antibody [1B1] (ab62539) staining at 1/1000 dilution, shown in green; Rabbit Anti-GAPDH antibody [EPR16891] (ab181602) loading control staining at 1/20000 dilution, shown in magenta. In Western blot, ab62539 was shown to bind specifically to DPYSL2. A band was observed at 63 kDa in wild-type A549 cell lysates with no signal observed at this size in DPYSL2 knockout cell line. To generate this image, wild-type and DPYSL2 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution.
All lanes:
Western blot - Anti-CRMP2 antibody [1B1] (ab62539) at 1/1000 dilution

Lane 1:
Wild-type A549 cell lysate at 20 µg

Lane 2:
DPYSL2 knockout A549 cell lysate at 20 µg

Lane 3:
HeLa cell lysate at 20 µg

Lane 4:
A549 Nuclear Fraction cell lysate at 20 µg

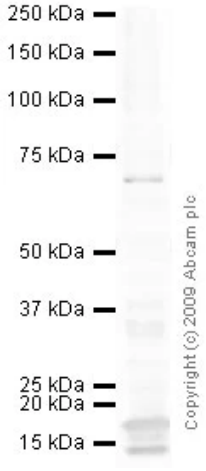
Lane 5:
Recombinant Human CRMP2 protein (ab114269) cell lysate at 0.2 µg

Secondary

All lanes:
Goat anti-Mouse IgG H&L 800CW and Goat anti-Rabbit IgG H&L 680RD at 1/20000 dilution

Performed under reducing conditions.

Observed band size: 63 kDa



Western blot - Anti-CRMP2 antibody [1B1] (ab62539)

All lanes:
Western blot - Anti-CRMP2 antibody [1B1] (ab62539) at 1/2500 dilution

All lanes:
CRMP2 antibody [1B1] (ab62539) at 1/2500 dilution + SK N BE (Human neuroblastoma) Whole Cell Lysate at 10 µg

Secondary

All lanes:
Goat polyclonal to Mouse IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Predicted band size: 62 kDa

Observed band size: 70 kDa

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