abcam

# ab240952

# Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free

Recombinant | RabMAb

## 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** | EPR7792 |
| **Purification technique** | Affinity purification Protein A |
| **Dissociation constant** | 2.38 x $10^{-10}$ M |
| **Concentration** | 1.049 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## IHC-P

**Tested**

| | |
|---|---|
| **Species** | Human |

| | |
|---|---|
| **Dilution info** | - |
| **Notes** | - |

### Not recommended

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | - |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | - |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Human, Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | - |
| **Notes** | ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | - |
| **Notes** | ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

### Expected

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | Use at an assay dependent concentration. |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human, Mouse, Rat |
| **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 conditions** | +4°C |
| **Appropriate long-term storage conditions** | +4°C |
| **Storage information** | Do Not Freeze |

## Notes

ab240952 is the carrier-free version of ab129082.

**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.

## 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.

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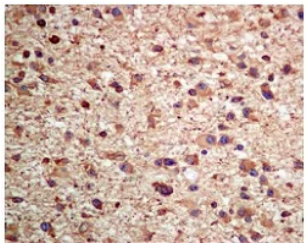
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

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## 9 product images



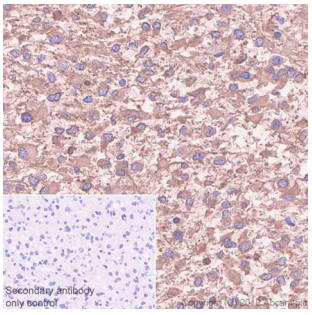
### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CRMP1 + CRMP2 antibody

ab129082, at a dilution of 1/100, staining CRMP2 in paraffin embedded Human astrocytoma tissue by Immunohistochemistry.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.

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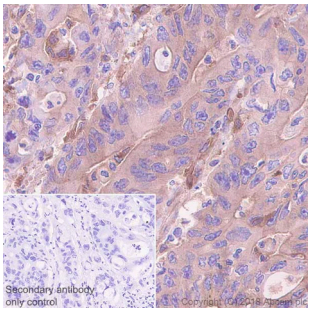



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CRMP1 + CRMP2 antibody

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human glioma tissue sections labeling CRMP2 with Purified ab129082 at 1:1000 dilution (0.12 µg/ml). Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)

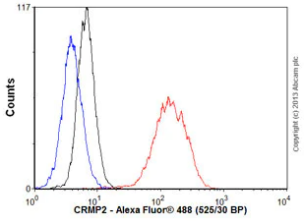
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## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CRMP1 + CRMP2 antibody

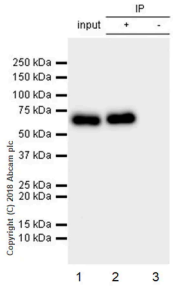
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human colon carcinoma tissue sections labeling CRMP2 with Purified ab129082 at 1:1000 dilution (0.12 µg/ml). Heat mediated antigen retrieval was performed using ab93684 (Tris/EDTA buffer, pH 9.0). ImmunoHistoProbe one step HRP Polymer (ready to use)was used as the secondary antibody. Negative control:PBS instead of the primary antibody. Hematoxylin was used as a counterstain. This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)




## Flow Cytometry (Intracellular) - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Flow Cytometry (Intracellular) staining using rabbit Anti-CRMP1 + CRMP2 antibody

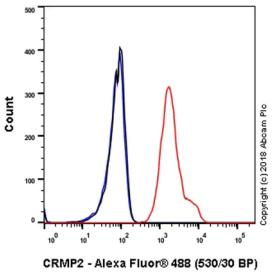
Overlay histogram showing SH-SY5Y cells stained with ab129082 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab129082, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-rabbit IgG (H&L) (ab150077) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (0.1 µg/1x$10^6$ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)




## Immunoprecipitation - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

ab129082 (purified) at 1:20 dilution (0.5µg) immunoprecipitating CRMP2 in U-87 MG whole cell lysate.
Lane 1 (input): U-87 MG (Human glioblastoma-astrocytoma epithelial cell) whole cell lysate 10µg
Lane 2 (+): ab129082 & U-87 MG whole cell lysate
Lane 3 (-): Rabbit monoclonal IgG (ab172730) instead of ab129082 in U-87 MG whole cell lysate
For western blotting, VeriBlot for IP Detection Reagent (HRP) (ab131366) was used for detection at 1:1000 dilution.
Blocking and diluting buffer: 5% NFDM/TBST.
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)
All lanes:
Immunoprecipitation - Anti-CRMP1 + CRMP2 antibody [EPR7792] (ab129082)

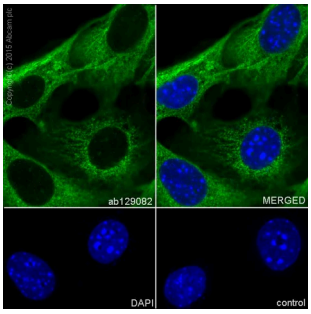
Predicted band size: 47 kDa




## Flow Cytometry (Intracellular) - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Flow Cytometry (Intracellular) staining using rabbit Anti-CRMP1 + CRMP2 antibody

Intracellular Flow Cytometry analysis of NIH/3T3 (Mouse embryonic fibroblast) cells labeling CRMP2 with Purified ab129082 at 1/20 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)

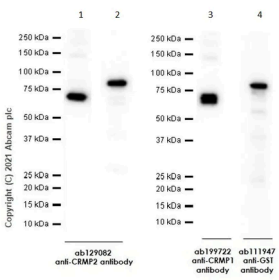



## Immunocytochemistry/ Immunofluorescence - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CRMP1 + CRMP2 antibody

ab129082 staining CRMP2 in NIH/3T3 (mouse embryonic fibroblast) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a dilution of 1/1000. DAPI was used as a nuclear counterstain.
**Negative control 1**: PBS only.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab129082)




## Western blot - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

CRMP1 + CRMP2 Western blot staining using rabbit Anti-CRMP1 + CRMP2 antibody

THis data was developed using ab129082, the same antibody clone in a diffrent buffer formulation.
Blocking and dilution buffer: 5% NFDM /TBST

All lanes:
Western blot - Anti-CRMP1 + CRMP2 antibody [EPR7792] (ab129082) at 1/1000 dilution

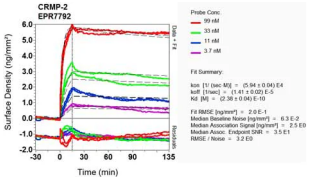
Lanes 1 and 3:
Western blot - Recombinant Human CRMP1 protein (His tag N-Terminus) (ab202599)

Lanes 2 and 4:
Western blot - Recombinant Human CRMP2 protein (GST tag N-Terminus) (ab114269)

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Exposure time: 3s




## OI-RD Scanning - Anti-CRMP1 + CRMP2 antibody [EPR7792] - BSA and Azide free (ab240952)

We have systematically measured KD (the equilibrium dissociation constant between the antibody and its antigen), of more than 840 recombinant antibodies to assess not only their individual KD values but also to see the average affinity of antibody. Based on the comparison with published literature values for mouse monoclonal antibodies, Recombinant antibodies appear to be on average 1-2 order of magnitude higher affinity.

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