abcam

ab53521

Anti-A2B5 antibody [105]

Key facts

Isotype	IgM
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	105
Purity	IgM fraction
Light chain type	kappa
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	1 µg/mL
Notes	-

Species	Rat

Dilution info	1 µg/mL
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Chicken
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1 µg for 10^6 Cells
Notes	ab18400 - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.

Expected

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

Predicted

Species	Chicken
Dilution info	-
Notes	-

Target data

See full target information Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit beta isoform

Function	As the regulatory component of the serine/threonine-protein phosphatase 2A (PP2A) holoenzyme, modulates substrate specificity, subcellular localization, and responsiveness to phosphorylation. The phosphorylated form mediates the interaction between PP2A and AKT1, leading to AKT1 dephosphorylation.

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

Notes

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

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.

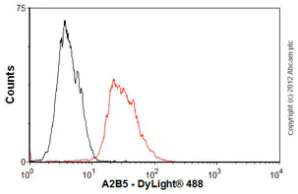
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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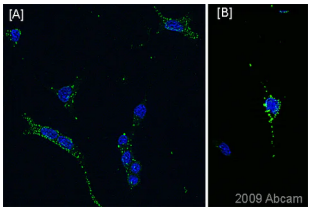
5 product images



Flow Cytometry (Intracellular) - Anti-A2B5 antibody [105] (ab53521)

A2B5 Flow Cytometry (Intracellular) staining using mouse Anti-A2B5 antibody

Overlay histogram showing SH-SY5Y cells stained with ab53521 (red line). The cells were fixed with 80% methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53521, 1µg/1x10^6 cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgM (mu chain) (ab97007) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgM [ICIGM] (ab91545, 2µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

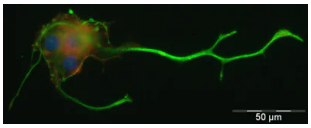


This image is courtesy of a customer review submitted by Mr Carl Hobbs

Immunocytochemistry/ Immunofluorescence - Anti-A2B5 antibody [105] (ab53521)

A2B5 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-A2B5 antibody

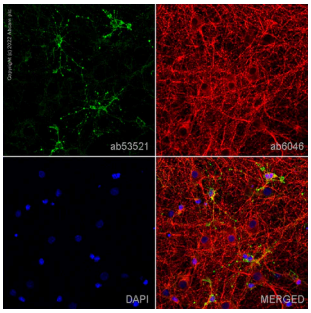
A2B5 antibody [105] - Stem Cell Marker (ab53521) used in immunocytochemical detection on Cor1 (mouse) neuronal stem cells. Cor1 neuronal stem cells were fixed in formaldehyde, permeabilized, blocked in 1% BSA for 30 mins at RT. ab53521 was incubated at 1/500 for 16 hours in TBS/BSA/azide/0.5% Triton. Secondary Antibody:anti mouse IgM conjugated: to Alexa Fluor® 488 (1/1000).



Immunocytochemistry/ Immunofluorescence - Anti-A2B5 antibody [105] (ab53521)

A2B5 Immunocytochemistry/ Immunofluorescence staining using mouse Anti-A2B5 antibody

ICC/IF image of ab53521 stained PC12 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53521, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgM (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue).

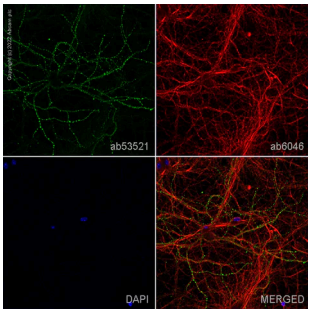


Immunocytochemistry/ Immunofluorescence - Anti-A2B5 antibody [105] (ab53521)

A2B5 Immunocytochemistry/ Immunofluorescence staining of Primary rat neurons/glia, DIV14 (prepared from E18 rat hippocampal brain area) cells. using mouse Anti-A2B5 antibody

ab53521 staining A2B5 in primary rat neurons/glia, DIV14 (prepared from E18 rat hippocampal brain area, obtained from Transnetyx Tissue by BrainBits, LLC, cat.no. SDHEP) cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1%PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab53521 at 1µg/ml and ab6046. Cells were then incubated with ab150121 at 1/1000 dilution (shown in green) and ab150080 at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

Image was acquired with a confocal microscope (Leica-Microsystems TCS SP8) and a single confocal section is shown.



Immunocytochemistry/ Immunofluorescence - Anti-A2B5 antibody [105] (ab53521)

A2B5 Immunocytochemistry/ Immunofluorescence staining of Primary mouse neurons/glia, DIV14 (prepared from E18 mouse hippocampal brain area) cells. using mouse Anti-A2B5 antibody

ab53521 staining A2B5 in primary mouse neurons/glia, DIV14 (prepared from E18 mouse hippocampal brain area, obtained from Transnetyx Tissue by BrainBits, LLC, cat.no. C57EHP) cells. The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at 4°C with ab53521 at 1µg/ml and ab6046. Cells were then incubated with ab150121 at 1/1000 dilution (shown in green) and ab150080 at 1/1000 dilution (shown in pseudocolour red). Nuclear DNA was labelled with DAPI (shown in blue).

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