

Anti-Talin 1 antibody [8D4] ab157808

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Overview

Product name	Anti-Talin 1 antibody [8D4]
Description	Mouse monoclonal [8D4] to Talin 1
Host species	Mouse
Tested applications	Suitable for: IP, WB, ICC/IF, Flow Cyt (Intra)
Species reactivity	Reacts with: Mouse, Rat, Chicken, Human, Frog
Immunogen	Talin 1 protein purified from chicken gizzard.
Epitope	ab157808 recognizes an epitope within the rod domain of Talin 1.
Positive control	PC12 and Rabbit fibroblast cell lysates; Chick fibroblasts
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: 50% Glycerol, 0.1% BSA, 48% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	8D4
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab157808 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
IP		Use at an assay dependent concentration.
WB		1/1000. Detects a band of approximately 240 kDa (predicted molecular weight: 269 kDa).
ICC/IF		1/100.
Flow Cyt (Intra)		1/1000. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

Function

Probably involved in connections of major cytoskeletal structures to the plasma membrane. High molecular weight cytoskeletal protein concentrated at regions of cell-substratum contact and, in lymphocytes, at cell-cell contacts.

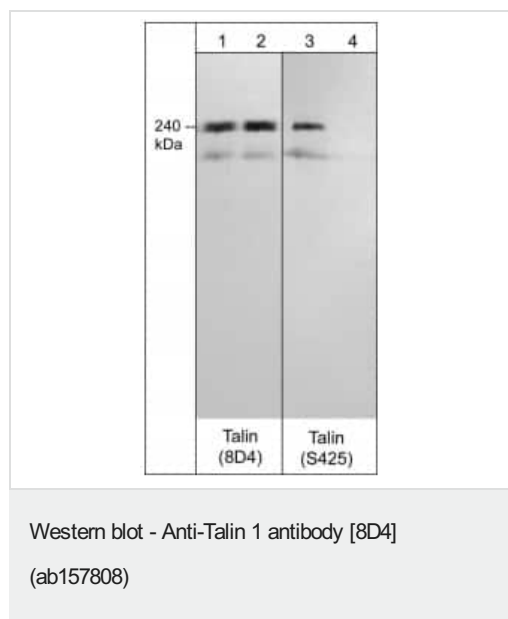
Sequence similarities

Contains 1 FERM domain.
Contains 1 ILWEQ domain.

Cellular localization

Cell projection, ruffle membrane. Cytoplasm, cytoskeleton. Cell surface. Cell junction, focal adhesion. Colocalizes with LAYN at the membrane ruffles. Localized preferentially in focal adhesions than fibrillar adhesions (By similarity).

Images



Lanes 1-2 : Anti-Talin 1 antibody [8D4] (ab157808) at 1/1000 dilution

Lanes 3-4 : Anti-Talin 1 (phospho S425) antibody (**ab157807**) at 1/1000 dilution (Rabbit polyclonal to anti-Talin 1 (phospho Serine 425))

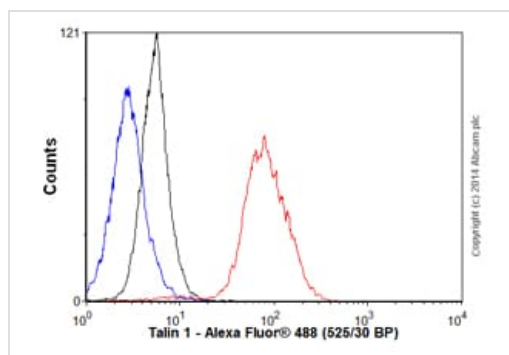
Lanes 1 & 3 : PC12 cell lysate - stimulated with calyculin A at 100nM for 30 minutes

Lanes 2 & 4 : PC12 cell lysate - stimulated with calyculin A at 100nM for 30 minutes and treated with lambda phosphatase

Predicted band size: 269 kDa

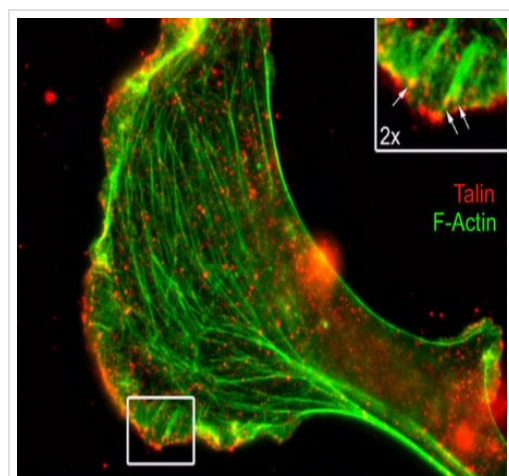
Observed band size: 240 kDa

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS and 0.04% Tween20 for 1 hour at room temperature.



Flow Cytometry (Intracellular) - Anti-Talin 1 antibody [8D4] (ab157808)

Overlay histogram showing RAW 264.7 cells stained with ab157808 (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 (ab157808, 1/1000 dilution) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ 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 antibody gave a positive signal in RAW 264.7 cells fixed with 4% formaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



Immunocytochemistry/ Immunofluorescence - Anti-Talin 1 antibody [8D4] (ab157808)

Immunocytochemical analysis of chick fibroblasts labelling Talin 1 with ab157808 at 1/100 (red). F-actin was stained in green. Image provided by Dr. Gianluca Gallo at Drexel University.

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