abcam

ab192467

Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y]

Anti-Cytokeratin 8 antibody [EP1628Y] - Alexa Fluor® 488 conjugated (ab192467) is a rabbit recombinant monoclonal antibody detecting Cytokeratin 8 in **Flow Cytometry (Intra)**. Suitable for **Human**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 10 publications

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 488
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EP1628Y
Purification technique	Affinity purification Protein A
Dissociation constant	4.6×10^{-10} M
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC

Tested

Species	Human
Dilution info	1/100
Notes	-

Predicted

Species	Mouse
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	1/500
Notes	-

Expected

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

ICC/IF

Expected

Species	Human, Mouse

Dilution info	Use at an assay dependent concentration.
Notes	-

IHC-P

Expected

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

Target data

See full target information KRT8

Function	Required for the formation of KRT8/KRT18 filaments that are involved in ARHGEF40-mediated actin stress fiber formation and tensional force-induced stress fiber formation and reinforcement (PubMed:26823019). Together with KRT19, helps to link the contractile apparatus to dystrophin at the costameres of striated muscle.

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, Stable for 12 months at -20°C, Store in the dark

Notes

What is this antibody validated in?
Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y] (ab192467) is a rabbit recombinant monoclonal antibody and is validated for use in Flow Cytometry (Intra), Flow Cytometry (Flow Cyt) in Human samples.

Trusted by the scientific community
Anti-Cytokeratin 8 [EP1628Y] Alexa Fluor® 488 (ab192467) was first used in a scientific publication in 2014 and has been cited over 10 times in peer-reviewed journals.

Related products
Antibody clone EP1628Y is also available pre-conjugated to a variety of labels for your convenience – Anti-Cytokeratin 8 Alexa Fluor® 488 [EP1628Y] (ab192467).

Other related products
We have a range of other formats of antibody clone [EP1628Y] also available for your convenience: ab53280, Alexa Fluor® 488 - ab192467, Alexa Fluor® 647 - ab192468, HRP - ab193094, PE - ab209297, Alexa Fluor® 405 - ab210139, Carrier free - ab217173, Carrier free - ab302461

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.

Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.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

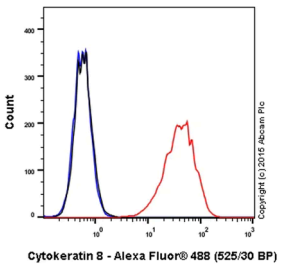
We do not recommend this combination. It is not covered by our product promise.

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.

5 product images



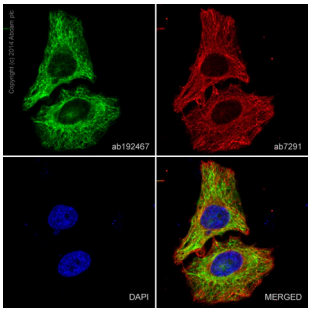
Flow Cytometry (Intracellular) - Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y] (ab192467)

Cytokeratin 8 Flow Cytometry (Intracellular) staining using rabbit Anti-Cytokeratin 8 antibody

Flow cytometry analysis of HeLa cells stained with ab192467. 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 (ab192467, 1/500 dilution) for 30 min at 22°C.
Isotype control antibody (black line) was rabbit monoclonal IgG [EPR25A] Alexa Fluor® 488 (ab199091) used at the same concentration and conditions as the primary antibody. Unlabeled 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 HeLa cells fixed with 4% formaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.



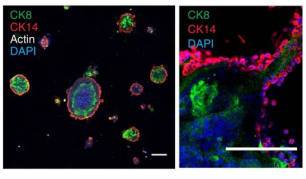
Immunocytochemistry - Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y] (ab192467)

Cytokeratin 8 Immunocytochemistry staining using rabbit Anti-Cytokeratin 8 antibody

Immunofluorescence staining of cytokeratin 8 in HeLa cells using ab192467. The cells were fixed with 4% formaldehyde (10 min) and then blocked in 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Triton X-100 for 1hr. The cells were then incubated with ab192647 at a working dilution of 1 in 100 (shown in green) and ab7291 (Mouse monoclonal [DM1A] to alpha Tubulin) at 1 µg/ml overnight at +4°C, followed by a further incubation at room temperature for 1hr with AlexaFluor® 594 Goat anti-mouse IgG (H&L - preadsorbed) (ab150120) at 2 µg/ml (shown in pseudo-color red).
Nuclear DNA was labeled in blue with DAPI.

This product gave a positive signal in 100% methanol (5 min) fixed HeLa cells under the same testing conditions.

Image was taken with a Confocal microscope (Leica-microsystems, TCS SP8)

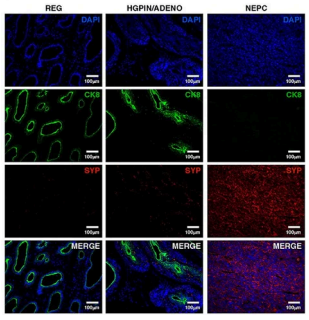


Immunocytochemistry - Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y] (ab192467)

Cytokeratin 8 Immunocytochemistry staining using rabbit Anti-Cytokeratin 8 antibody

Rosenbluth J et al., Nat Commun, 11(1), 1711. Fig 1c.; doi: 10.1038/s41467-020-15548-7. Reproduced under the Creative Commons license http://creativecommons.org/licenses/by/4.0/.

Immunofluorescence staining in human mammary organoids of cytokeratin 8 using ab192467 (green), cytokeratin 14 using ab206100 (red), and actin (white). Cells were fixed with 4% paraformaldehyde for 20 minutes at room temperature and permeabilized with 0.5% Triton X-100 for 10 minutes at 4 °C. Primary antibodies incubated overnight at 4 °C. Nuclear DNA was labelled with DAPI (blue). Scale bar = 100 µm. Organoids were imaged by confocal microscopy.

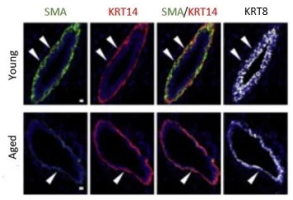


Sulsenti R et al; Front Immunol. 2021 Mar 2;12:622001. doi: 10.3389/fimmu.2021.622001. Reproduced under the Creative Commons license: https://creativecommons.org/licenses/by/4.0/

Immunocytochemistry - Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y] (ab192467)

Cytokeratin 8 Immunocytochemistry staining using rabbit Anti-Cytokeratin 8 antibody

Immunofluorescence analysis of mouse postate tumor samples labelling cytokeratin 8 (green) with ab192467 at 1/100 dilution. SYP was also stained using ab206870 (red). Cells were fixed with formalin and embedded in paraffin. Sections were blocked with PBS-Tween (0.1%) containing 5% of BSA. Primary conjugated antibodies were simultaneously incubated overnight at 4°C. Nuclear DNA was labelled with DAPI (blue). Scale bar = 100 µm.



Li CM et al; Cell Rep. 2020 Dec 29;33(13):108566. doi: 10.1016/j.celrep.2020.108566. Reproduced under the Creative Commons license: https://creativecommons.org/licenses/by/4.0/

Immunocytochemistry - Alexa Fluor® 488 Anti-Cytokeratin 8 antibody [EP1628Y] (ab192467)

Cytokeratin 8 Immunocytochemistry staining using rabbit Anti-Cytokeratin 8 antibody

Immunofluorescence analysis of mouse myoepithelial cells labelling KRT8 (right) with ab192467 at 1/100 dilution. The tissue was fixed in 10% neutral buffered formalin overnight. Paraffin embedding and sectioning were performed by the Rodent Histopathology Core at Harvard Medical School. Scale bar, 10 µm.

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