

Product datasheet

Anti-Eph receptor A3 antibody ab54623

3 Images

Overview

Product name	Anti-Eph receptor A3 antibody
Description	Mouse monoclonal to Eph receptor A3
Host species	Mouse
Tested applications	Suitable for: ICC/IF, WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment, corresponding to amino acids 202-326 of Human Eph receptor A3
General notes	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Isotype	IgG2b
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab54623** in the following tested applications.

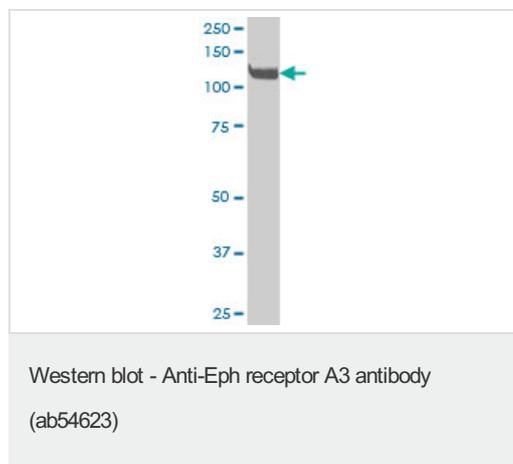
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.
WB		Use a concentration of 1 - 5 µg/ml. Predicted molecular weight: 110 kDa.
IHC-P		Use a concentration of 5 µg/ml.

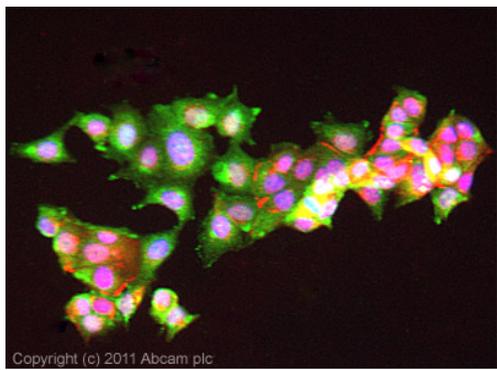
Target

Function	Receptor for members of the ephrin-A family. Binds to ephrin-A2, -A3, -A4 and -A5. Could play a role in lymphoid function.
Tissue specificity	Widely expressed. Highest level in placenta.
Involvement in disease	Defects in EPHA3 may be a cause of colorectal cancer (CRC) [MIM:114500].
Sequence similarities	Belongs to the protein kinase superfamily. Tyr protein kinase family. Ephrin receptor subfamily. Contains 2 fibronectin type-III domains. Contains 1 protein kinase domain. Contains 1 SAM (sterile alpha motif) domain.
Cellular localization	Secreted and Cell membrane.

Images

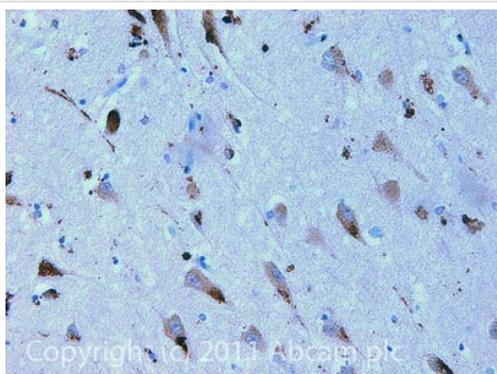


Eph receptor A3 antibody (ab54623) at 1ug/lane + HeLa cell lysate at 25ug/lane.



Immunocytochemistry/ Immunofluorescence - Anti-Eph receptor A3 antibody (ab54623)

ICC/IF image of ab54623 stained MCF7 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 (ab54623, 5µg/ml) overnight at +4°C. The secondary antibody (green) was [ab96879](#), DyLight® 488 goat anti-mouse IgG (H+L) used at a 1/250 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) at a concentration of 1.43µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Eph receptor A3 antibody (ab54623)

IHC image of ab54623 staining in Human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab54623, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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