

Product datasheet

Anti-Integrin alpha 3 antibody [IA3] ab20141

1 References

Overview

| | |
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| Product name | Anti-Integrin alpha 3 antibody [IA3] |
| Description | Mouse monoclonal [IA3] to Integrin alpha 3 |
| Host species | Mouse |
| Specificity | Specific to alpha 3 integrin. IA3 is useful for studies on inhibition of cell-cell adhesion and cell-substrate adhesion. |
| Tested applications | Suitable for: Functional Studies, IHC-Fr |
| Species reactivity | Reacts with: Human |
| Immunogen | Cell preparation: Transfected human breast epithelial cell line MTSV1-7, hygromycin resistant. |
| General notes | Fusion partner: NS2 |

Properties

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|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. |
| Storage buffer | Preservative: None Constituents: PBS |
| Purity | Protein A/G purified |
| Clonality | Monoclonal |
| Clone number | IA3 |
| Isotype | IgG1 |
| Light chain type | unknown |

Applications

Our [Abpromise guarantee](#) covers the use of **ab20141** 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 |
|--------------------|-----------|--|
| Functional Studies | | Use at an assay dependent concentration. |
| IHC-Fr | | Use at an assay dependent concentration. |

Target

| | |
|---|--|
| Function | Integrin alpha-3/beta-1 is a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration. |
| Tissue specificity | Isoform alpha-3A is widely expressed. Isoform alpha-3B is expressed in brain and heart. In brain, both isoforms are exclusively expressed on vascular smooth muscle cells, whereas in heart isoform alpha-3A is strongly expressed on vascular smooth muscle cells, isoform alpha-3B is detected only on endothelial vein cells. |
| Sequence similarities | Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. |
| Post-translational modifications | Isoform alpha-3A, but not isoform alpha-3B, is phosphorylated on serine residues. Phosphorylation increases after phorbol 12-myristate 13-acetate stimulation. Isoform alpha-3A is phosphorylated on Tyr-1051. |
| Cellular localization | Membrane. |

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