

## Product datasheet

# Anti-Integrin alpha 3 antibody [IA3] ab20141

### 1 References

#### Overview

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

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	Preservative: None Constituents: PBS
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	IA3
<b>Isotype</b>	IgG1
<b>Light chain type</b>	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.

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IHC-Fr		Use at an assay dependent concentration.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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.
<b>Sequence similarities</b>	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Membrane.

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