

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse/Rat                                                                                                                                                                                                                                                                   |
| <b>Specificity</b>        | Detects mouse and rat Integrin $\alpha 8$ in Western blots. In direct ELISAs and Western blots, approximately 30% cross-reactivity with recombinant human (rh) Integrin $\alpha 8$ is observed, and less than 1% cross-reactivity with rhIntegrin $\alpha 5$ , recombinant  |
| <b>Source</b>             | Polyclonal Goat IgG                                                                                                                                                                                                                                                         |
| <b>Purification</b>       | Antigen Affinity-purified                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>          | Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin $\alpha 8$<br>Phe38-Phe1007<br>Accession # A28ARA8                                                                                                                                                   |
| <b>Conjugate</b>          | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

#### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunocytochemistry</b> | Optimal dilution of this antibody should be experimentally determined. |

#### PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

#### BACKGROUND

Integrin alpha 8 is a 170-200 kDa member of the Integrin family of adhesion molecules. It forms an exclusive noncovalent heterodimer with Integrin  $\beta 1$ .  $\alpha 8\beta 1$  promotes both cell adhesion and survival and is known to bind to fibronectin, the latency-associated peptide in latent TGF- $\beta 1$  and nephronectin. Mouse Integrin  $\alpha 8$  is a 1025 amino acid (aa) type I transmembrane glycoprotein. It contains a 969 aa extracellular region (aa 38-1006) and a 29 aa cytoplasmic domain. One isoform may exist that shows a truncation after Ala675 of the precursor. In the ECD, mouse Integrin  $\alpha 8$  shares 96% and 90% aa sequence identity with rat and human Integrin  $\alpha 8$  protein, respectively.

#### PRODUCT SPECIFIC NOTICES

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