

#### DESCRIPTION

|                           |                                                                                                                                                                                                                                                                                |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Mouse                                                                                                                                                                                                                                                                          |
| <b>Specificity</b>        | Detects mouse Integrin $\beta$ 7 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant mouse (rm) Integrin $\beta$ 1, rmIntegrin $\beta$ 2, recombinant human Integrin $\beta$ 3, and rmIntegrin $\beta$ 6 is |
| <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 $\beta$ 7<br>Glu20-His722<br>Accession # P26011                                                                                                                                                         |
| <b>Conjugate</b>          | Alexa Fluor 750<br>Excitation Wavelength: 749 nm<br>Emission Wavelength: 775 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>CyTOF-ready</b>    | Optimal dilution of this antibody should be experimentally determined. |
| <b>Western Blot</b>   | Optimal dilution of this antibody should be experimentally determined. |
| <b>Flow Cytometry</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  $\beta$ 7 is a 130 kDa type I transmembrane glycoprotein that belongs to the integrin beta chain family. It heterodimerizes with either Integrin  $\alpha$ 4 or  $\alpha$ E. Whereas, Integrin  $\alpha$ E $\beta$ 7 is a receptor for E-Cadherin, Integrin  $\alpha$ 4/ $\beta$ 7 is a receptor for fibronectin, MAdCAM 1 and VCAM1. The extracellular domain of mouse Integrin  $\beta$ 7 shares 94% and 87% amino acid sequence identity with that of rat and human Integrin  $\beta$ 7, respectively.

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