Mouse/Rat Integrin β5 Alexa Fluor® 750-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF8035S
100 µg

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin β5 Gly24-Asn719 Accession # NP_001139356
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *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.*

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

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

BACKGROUND

The β5 integrin is a 95-110 kDa member of the integrin beta chain family, integrin superfamily of molecules. It is expressed by select cell types, including microglia, keratinocytes, fibroblasts, endothelial cells, adhesive monocytes and macrophages, retinal pigment epithelium, immature dendritic cells and colonic epithelium. The Integrin β5 subunit forms a noncovalent heterodimer with the αv integrin subunit, and together they bind vitronectin, and the Thy-1 antigen. αvβ5 is reported to participate in phagocytosis, and act in concert with CD81, CD36 and stabilin-2 on the cell surface. When αvβ5 binds Thy-1, the heterodimer apparently interfers with cell membrane activation of TGF-β. Intracellularly, it appears to regulate actin skeleton remodeling via focal adhesion complex formation, and may contribute to cryptic pathways associated with antigen presentation. Mature mouse Integrin β5 is a 775 amino acid (aa) type I transmembrane glycoprotein that contains a 696 aa extracellular domain (ECD) (aa 24-719) and a 56 aa cytoplasmic region. The ECD contains a 243 aa vWF-A domain (aa 136-378) and a Cys-rich tandem repeat region (aa 465-630). There is one splice variant that shows a 57 aa substitution for aa 760-798. This splice form does not appear to be expressed by the human Integrin β5 gene. Over aa 24-719, mouse Integrin β5 shares 91% and 97% aa sequence identity with human and rat Integrin β5, respectively.

PRODUCT SPECIFIC NOTICES

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