Mouse Integrin α11 Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6498T
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin α11 in direct ELISAs and Western blots. In direct ELISAs, approximately 30% cross-reactivity with recombinant human (rh) Integrin α11 is observed, and less than 2% cross-reactivity with recombinant mouse (rm) Integrin α2 a
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin α11 Phe19-Pro1141 Accession # P61622
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	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

Integrin α11 (ITGA11) is a 155-160 kDa member of the integrin alpha chain family of molecules. It preferentially forms a cell surface heterodimer with β1 Integrin. In particular, it is further classified as a collagen-binding group member, showing a preference for binding to collagen I and II, plus group A Streptococcal Scl1 protein. ITGA11 is expressed by embryonic mesenchymal cells in areas that incorporate collagen during development. In adult tissue, fibroblasts express ITGA11, and a collagen:ITGA11 interaction likely contributes to the formation of myofibroblasts. Mature mouse ITGA11 is an 1166 amino acid (aa) type I transmembrane glycoprotein. It contains a large 1119 aa extracellular domain (ECD) (aa 23-1141) plus a short 24 aa cytoplasmic region. The ECD shows 7 x 60 aa FG-Gap repeats that generate β-propellers (aa 24-650) with an intervening I domain that binds collagen (aa 164-345). There is one potential splice variant that shows an eight aa substitution for aa 89-119 coupled to a seven aa insertion after Gly690. Over aa 23-1141, mouse ITGA11 shares 95% and 90% aa identity with rat and human ITGA11, respectively.

PRODUCT SPECIFIC NOTICES

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