

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Integrin α 11 in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse Integrin α 11 is observed and less than 1% cross-reactivity with recombinant human (rh) Integrin α 1 and rhI
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin α 11 Phe23-Pro1141 (Leu524Arg) Accession # NP_001004439
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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 α 11 (ITGA11) is a 155-160 kDa member of the integrin α chain family of molecules. It preferentially forms a cell surface heterodimer with β 1 integrin. In particular, it is further classified as a collagen-binding group member, showing a preference for binding to collagen I and II. ITGA11 is expressed by embryonic mesenchymal cells in and around areas that incorporate, or utilize collagen during development. In adult tissue, fibroblasts express ITGA11, and collagen:ITGA11 interaction likely contributes to wound contraction and closure. Mature human ITGA11 is an 1167 amino acid (aa) type I transmembrane glycoprotein. It contains a large 1120 aa extracellular domain (ECD) (aa 23-1142) 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 154-345). Over aa 23-1142, human ITGA11 shares 90% aa identity with mouse ITGA11.

PRODUCT SPECIFIC NOTICES

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