

DESCRIPTION

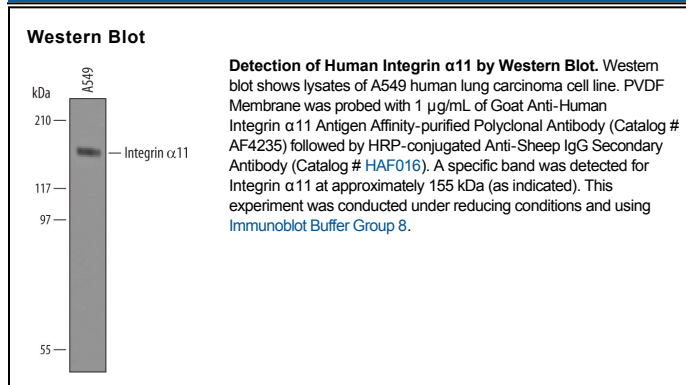
Species Reactivity	Human
Specificity	Detects Human Integrin $\alpha 11$ in direct ELISAs and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant mouse Integrin $\alpha 11$ is observed and less than 1% cross-reactivity with recombinant human (rh) Integrin $\alpha 1$ and rhIntegrin $\alpha 2$ is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Integrin $\alpha 11$ Phe23-Pro1141 (Leu524Arg) Accession # NP_001004439
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 μ g/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Integrin $\alpha 11$ (ITGA11) is a 155-160 kDa member of the integrin α chain family of molecules. It preferentially forms a cell surface heterodimer with $\beta 1$ 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.