

DESCRIPTION

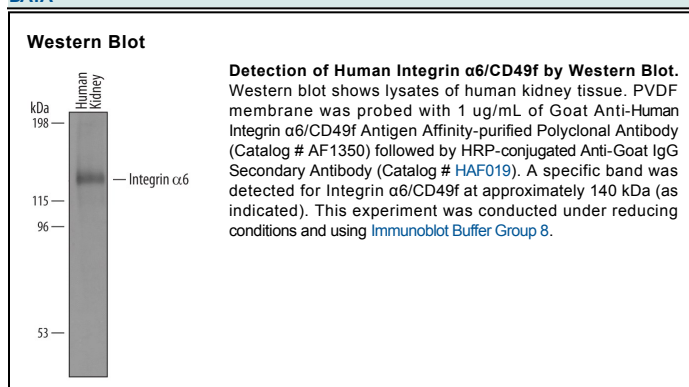
Species Reactivity	Human
Specificity	Detects human Integrin $\alpha 6$ /CD49f in direct ELISAs and Western blots. In direct ELISAs, less than 5% cross-reactivity with recombinant human (rh) Integrin $\alpha 9$ is observed and less than 1% cross-reactivity with rhIntegrin $\alpha 2$, recombinant mouse (rm) Integrin $\alpha 3$, rhIntegrin $\alpha 7$, and rmIntegrin $\alpha 7$ is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Integrin $\alpha 6$ /CD49f Pro93-Arg148, Ile557-Arg613 Accession # P23229
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 $\alpha 6$ (also VLA-6, CD49F and ITA6) is a 130-150 kDa member of the integrin α chain family of molecules. Mature Integrin $\alpha 6$ is a 1107 amino acid (aa) type I transmembrane glycoprotein that contains a 1027 aa extracellular region and a 93 aa cytoplasmic tail. The ECD is cleaved to generate a disulfide-linked dimer that shows a 125 kDa heavy chain (aa 24-938), and a 30-31 kDa membrane-bound light chain (aa 942-1130). Integrin $\alpha 6$ forms a non-disulfide-linked heterodimeric complex with both integrin beta 1 and beta 4. Each complex serves as a receptor for laminin. Splice variants exist that show either a deletion of aa 215-258 or a deletion of aa 260-298, possibly accompanied by a 29 aa substitution for aa 1084-1130. Over aa 93-148 and 518-574, human Integrin $\alpha 6$ shares 89% aa identity with mouse Integrin $\alpha 6$.