

DESCRIPTION

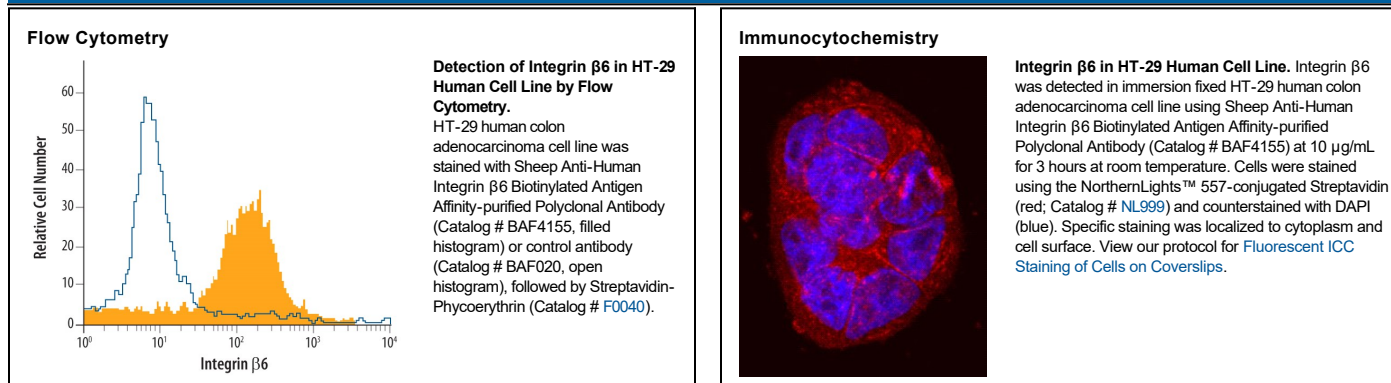
Species Reactivity	Human
Specificity	Detects human Integrin $\beta 6$ in Western blots. In Western blots, approximately 25% cross-reactivity with recombinant mouse Integrin $\beta 6$ is observed, approximately 10% cross-reactivity with recombinant human (rh) Integrin $\beta 3$ is observed, and less than 5% cross-reactivity with rhIntegrin $\beta 5$ is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Integrin $\beta 6$ Gly22-Asn707 Accession # P18564
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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	0.1 μ g/mL	Recombinant Human Integrin $\beta 6$
Flow Cytometry	2.5 μ g/ 10^6 cells	See Below
Immunocytochemistry	5-15 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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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 $\beta 6$ (ITG $\beta 6$) is a 95 kDa member of the Integrin beta family. It forms noncovalent heterodimers with Integrin αV and appears on epithelia following injury or inflammation. It activates TGF- β and assists keratinocyte migration. Human Integrin $\beta 6$ is a type I transmembrane glycoprotein that is 767 aa in length. It contains a 688 aa extracellular domain (ECD) (aa 22-709) that incorporates a 241 aa VWF-A domain. Over aa 22-707, human integrin $\beta 6$ ECD shares 90% and 93% aa sequence identity with mouse and pig integrin $\beta 6$ ECD, respectively.