

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Integrin $\alpha 8$ in Western blots. In Western blots, less than 5% cross-reactivity with recombinant human Integrin $\alpha 5$ and recombinant mouse (rm) Integrin $\alpha 5$ is observed, and less than 1% cross-reactivity with rmIntegrin αV is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Integrin $\alpha 8$ Phe38-Phe1007 Accession # A2ARA8
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

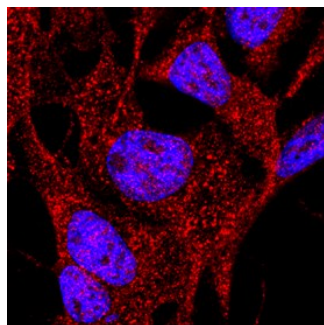
APPLICATIONS

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	0.5 μ g/mL	Mouse lung and rat lung
Immunocytochemistry	5-15 μ g/mL	See Below

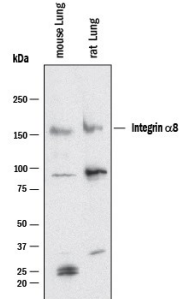
DATA

Immunocytochemistry



Integrin $\alpha 8$ in 4T1 Mouse Cell Line. Integrin $\alpha 8$ was detected in immersion fixed 4T1 mouse breast cancer cell line using Goat Anti-Mouse Integrin $\alpha 8$ Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF4076) at 10 μ g/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Streptavidin (red; Catalog # NL999) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm and cell surface. View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

Western Blot



Detection of Mouse Integrin $\alpha 8$ by Western Blot. Western blot shows lysates of Mouse Lung and Rat Lung. PVDF membrane was probed with 0.5 μ g/mL of Goat Anti-Mouse Integrin $\alpha 8$ Biotinylated Antigen Affinity-purified Polyclonal Antibody (Catalog # BAF4076) followed by Streptavidin-HRP (Catalog # DY998) in 3% BSA. A specific band was detected for Integrin $\alpha 8$ at approximately 155 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

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	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 8 is a 170-200 kDa member of the Integrin family of adhesion molecules. It forms an exclusive noncovalent heterodimer with Integrin $\beta 1$. $\alpha 8\beta 1$ promotes both cell adhesion and survival and is known to bind to fibronectin, the latency-associated peptide in latent TGF- $\beta 1$ and nephronectin. Mouse Integrin $\alpha 8$ is a 1025 amino acid (aa) type I transmembrane glycoprotein. It contains a 969 aa extracellular region (aa 38-1006) and a 29 aa cytoplasmic domain. One isoform may exist that shows a truncation after Ala675 of the precursor. In the ECD, mouse Integrin $\alpha 8$ shares 96% and 90% aa sequence identity with rat and human Integrin $\alpha 8$ protein, respectively.