

Human Integrin β5 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF3824

| DESCRIPTION | |
|--------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human Integrin β5 in direct ELISAs and Western blots. In direct ELISAs, approximately 50% cross-reactivity with recombinant mouse (rm) Integrin β5 is observed, and less than 5% cross-reactivity with recombinant human (rh) Integrin β1, rhIntegrin β3, rhIntegrin β4, rhIntegrin β6 and rmIntegrin β7 is observed. |
| Source | Polyclonal Sheep IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | Chinese hamster ovary cell line CHO cell-derived recombinant human Integrin β5 Gly24-Asn719 Accession # P18084 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS. |

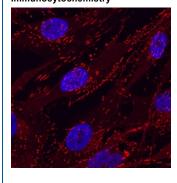
APPLICATIONS

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 μg/mL | HT-29 human colon adenocarcinoma cell line |
| Flow Cytometry | 2.5 μg/10 ⁶ cells | MG-63 human osteosarcoma cell line |
| Immunocytochemistry | 5-15 μg/mL | See Below |
| Simple Western | 50 μg/mL | MG-63 human osteosarcoma cell line |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |

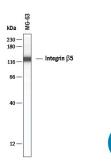
DATA

Immunocytochemistry



Integrin β5 in MG-63 Human Cell Line. Integrin ß5 was detected in immersion fixed MG-63 human osteosarcoma cell line using Sheep Anti-Human Integrin ß5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3824) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI(blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.



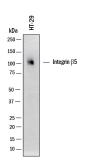


Detection of Human Integrin $\beta 5$ by Simple Western [™]. Simple Western lane view shows lysates of MG-63 human osteosarcoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Integrin β5 at approximately 129 kDa (as indicated) using 50 µg/mL of Sheep Anti-Human Integrin $\beta 5$ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3824) followed by 1:50 dilution of HRPconjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). This experiment was

conducted under reducing

conditions and using the 12-230 kDa separation system.





Integrin $\beta5$ by Western Blot. Western blot shows lysates of HT-29 human colon adenocarcinoma cell line. PVDF membrane was probed with 1 μ g/mL of Sheep Anti-Human Integrin $\beta5$ Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3824) followed by HRP-conjugated Anti-Sheep lgG Secondary Antibody (Catalog # HAF016). A specific

Detection of Human

band was detected for Integrin β5 at approximately 100 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot

Buffer Group 1.

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| 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. 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 $\beta5$ is a 100-110 kDa type I transmembrane glycoprotein that forms a non-disulfide-linked heterodimer with Integrin α_V . Integrin α_V is a receptor for vitronectin that is expressed on a wide variety of cell types including keratinocytes, fibroblasts, adhesive monocytes, and select endothelium. The 696 amino acid residue Integrin $\beta5$ extracellular region contains a vWF-A domain and a cysteine-rich tandem repeat region. Human Integrin $\beta5$ shares 91% and 89% amino acid sequence homology with mouse and canine Integrin $\beta5$, respectively.

