

## Recombinant Human ITGA5 (C-6His)

Catalog No: C478

<b>Description</b>	Recombinant Human Integrin $\alpha$ -5 is produced by our Mammalian expression system and the target gene encoding Phe42-Tyr995 is expressed with a 6His tag at the C-terminus.
<b>Source</b>	Human Cells
<b>Alternative name</b>	Integrin Alpha-5; CD49 Antigen-Like Family Member E; Fibronectin Receptor Subunit Alpha; Integrin Alpha-F; VLA-5; CD49e; ITGA5; FNRA
<b>Predicted Molecular Weight</b>	105.11kDa
<b>AP Molecular Weight</b>	130kDa, reducing conditions.
<b>Accession No.</b>	P08648
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
<b>Reconstitution</b>	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100<math>\mu</math>g/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>Quality Control</b>	<p>Bioactivity: Immobilized Human NovoNectin (Cat#CH38) at 2<math>\mu</math>g/ml (100 <math>\mu</math>l/well) can bind Human ITGA5-His (Cat#C478).</p> <p>Purity: The ED50 of Human ITGA5-His (Cat#C478) is 4-20 <math>\mu</math>g/ml. Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/<math>\mu</math>g (1 IEU/<math>\mu</math>g) as determined by LAL test.</p>
<b>Shipping</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>Storage</b>	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>
<b>Background</b>	Integrin $\alpha$ -5 belongs to the Integrin $\alpha$ chain family and contains 7 FG-GAP repeats. Integrin $\alpha$ -5 joins with Integrin- $\beta$ 1 to form a fibronectin and laminin receptor which recognizes the sequence R-G-D in its ligands. In case of HIV-1 infection, the interaction with extracellular viral Tat protein seems to enhance angiogenesis in Kaposi's sarcoma lesions. It is expressed on fibroblasts, endothelial cells, peripheral T cells and platelets. Integrin $\alpha$ -5 undergoes post-translational cleavage in the extracellular domain to yield disulfide-linked light and heavy chains. In addition to adhesion, ITGA5 participates in cell-surface mediated signalling.

### SDS-Page

