

# Cleaved-Integrin α5 LC (E895) Polyclonal Antibody

Catalog # AP63164

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P08648</a>
<b>Reactivity</b>	Human, Rat, Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	114536

## Additional Information

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<b>Gene ID</b>	3678
<b>Other Names</b>	ITGA5; FNRA; Integrin alpha-5; CD49 antigen-like family member E; Fibronectin receptor subunit alpha; Integrin alpha-F; VLA-5; CD antigen CD49e
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications. E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	ITGA5 ( <a href="#">HGNC:6141</a> )
<b>Synonyms</b>	FNRA
<b>Function</b>	Integrin alpha-5/beta-1 (ITGA5:ITGB1) is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. ITGA5:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed: <a href="#">18635536</a> , PubMed: <a href="#">25398877</a> ). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed: <a href="#">12807887</a> , PubMed: <a href="#">17158881</a> ). ITGA5:ITGB1 acts as a receptor for fibronectin (FN1) and mediates R-G-D-dependent cell adhesion to FN1 (PubMed: <a href="#">33962943</a> ). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed: <a href="#">29030430</a> ). ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling (PubMed: <a href="#">31331973</a> ).
<b>Cellular Location</b>	Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion

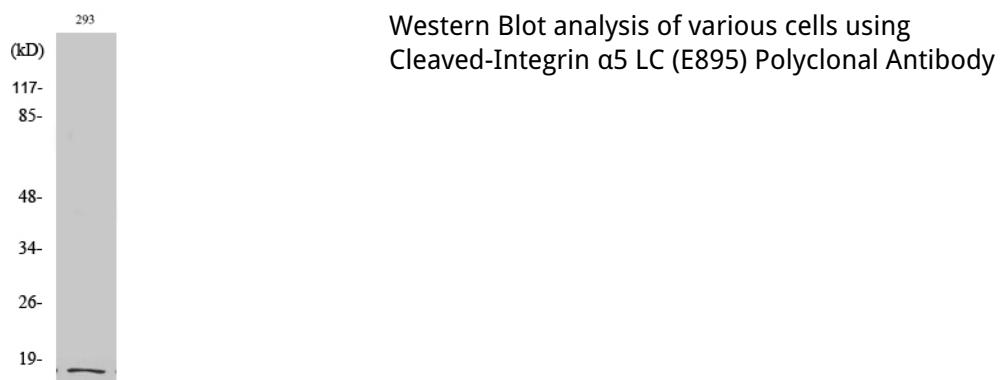
## Tissue Location

Expressed in placenta (at protein level).

## Background

Integrin alpha-5/beta-1 (ITGA5:ITGB1) is a receptor for fibronectin and fibrinogen. It recognizes the sequence R-G-D in its ligands. ITGA5:ITGB1 binds to PLA2G2A via a site (site 2) which is distinct from the classical ligand-binding site (site 1) and this induces integrin conformational changes and enhanced ligand binding to site 1 (PubMed:[18635536](#), PubMed:[25398877](#)). ITGA5:ITGB1 acts as a receptor for fibrillin-1 (FBN1) and mediates R-G-D-dependent cell adhesion to FBN1 (PubMed:[12807887](#), PubMed:[1715881](#)). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed:[29030430](#)).

## Images



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