

KD-Validated Anti-Integrin Subunit Alpha 5 Rabbit Polyclonal Antibody
Rabbit polyclonal antibody
Catalog # AGI1770**Specification****KD-Validated Anti-Integrin Subunit Alpha 5 Rabbit Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	P08648
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 115 kDa , observed , 18 kDa
Gene Name	ITGA5
Aliases	ITGA5; Integrin Subunit Alpha 5; CD49e; FNRA; Integrin, Alpha 5 (Fibronectin Receptor, Alpha Polypeptide); Fibronectin Receptor, Alpha Polypeptide; Fibronectin Receptor Subunit Alpha; CD49 Antigen-Like Family Member E; Integrin Alpha-5; Integrin Alpha-F; VLA-5; Very Late Activation Protein 5, Alpha Subunit; Fibronectin Receptor, Alpha Subunit; ITGA5/SLC9B1 Fusion; CD49e Antigen; VLA5A
Immunogen	A synthesized peptide derived from human CD49e LC

KD-Validated Anti-Integrin Subunit Alpha 5 Rabbit Polyclonal Antibody - Additional InformationGene ID **3678****Other Names**

Integrin alpha-5, CD49 antigen-like family member E, Fibronectin receptor subunit alpha, Integrin alpha-F, VLA-5, CD49e, Integrin alpha-5 heavy chain, Integrin alpha-5 light chain, ITGA5 (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6141), FNRA

KD-Validated Anti-Integrin Subunit Alpha 5 Rabbit Polyclonal Antibody - Protein InformationName ITGA5 ([HGNC:6141](#))

Synonyms FNRA

Function

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:17158881). ITGA5:ITGB1 acts as a receptor for fibronectin (FN1) and mediates R-G-D-dependent cell adhesion to FN1 (PubMed:33962943). ITGA5:ITGB1 is a receptor for IL1B and binding is essential for IL1B signaling (PubMed:29030430). ITGA5:ITGB3 is a receptor for soluble CD40LG and is required for CD40/CD40LG signaling (PubMed:31331973).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion

Tissue Location

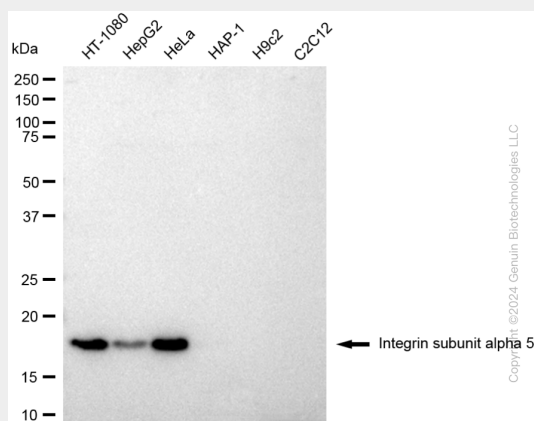
Expressed in placenta (at protein level).

KD-Validated Anti-Integrin Subunit Alpha 5 Rabbit Polyclonal Antibody - Protocols

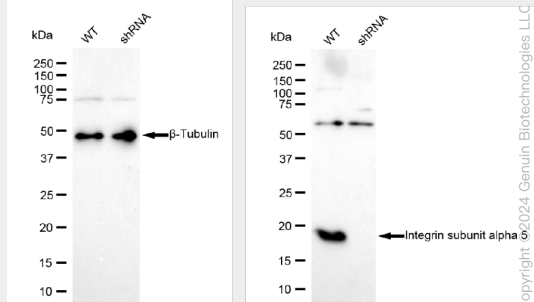
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

KD-Validated Anti-Integrin Subunit Alpha 5 Rabbit Polyclonal Antibody - Images



Western blotting analysis using anti-Integrin subunit alpha 5 antibody (Cat#AGI1770). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Integrin subunit alpha 5 antibody (Cat#AGI1770, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Integrin subunit alpha 5 antibody (Cat#AGI1770). Integrin subunit alpha 5 expression in wild type (WT) and Integrin subunit alpha 5 shRNA knockdown (KD) HeLa cells with 30 μ g of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-Integrin subunit alpha 5 antibody (Cat#AGI1770, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.