

# ITGA5 antibody - C-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15129

## Product Information

---

|                   |                                                       |
|-------------------|-------------------------------------------------------|
| Application       | WB                                                    |
| Primary Accession | <a href="#">P08648</a>                                |
| Other Accession   | <a href="#">NM_002205</a> , <a href="#">NP_002196</a> |
| Reactivity        | Human, Mouse                                          |
| Predicted         | Human, Mouse                                          |
| Host              | Rabbit                                                |
| Clonality         | Polyclonal                                            |
| Calculated MW     | 114536                                                |

## Additional Information

---

|                          |                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID                  | 3678                                                                                                                                                                                             |
| Alias Symbol             | CD49e, FNRA, VLA5A                                                                                                                                                                               |
| 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, FNRA |
| Format                   | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.                                                                                                |
| Reconstitution & Storage | Add 50 ul of distilled water. Final anti-ITGA5 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.   |
| Precautions              | ITGA5 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.                                                                             |

## Protein Information

---

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name     | ITGA5 ( <a href="#">HGNC:6141</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 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: <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:[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](#)).

|                          |                                                                                   |
|--------------------------|-----------------------------------------------------------------------------------|
| <b>Cellular Location</b> | Cell membrane; Single-pass type I membrane protein. Cell junction, focal adhesion |
| <b>Tissue Location</b>   | Expressed in placenta (at protein level).                                         |

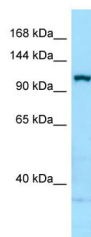
## References

---

Argraves W.S.,et al.J. Cell Biol. 105:1183-1190(1987).  
Birkenmeier T.M.,et al.J. Biol. Chem. 266:20544-20549(1991).  
Fitzgerald L.A.,et al.Biochemistry 26:8158-8165(1987).  
Argraves W.S.,et al.J. Biol. Chem. 261:12922-12924(1986).  
Takada Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 84:3239-3243(1987).

## Images

---



WB Suggested Anti-ITGA5 Antibody Titration: 1.0 µg/ml  
Positive Control: MDA-MB-435S Whole Cell

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.