

ITGA1 monoclonal antibody, clone TS2/7

Catalog # MAB5224

Size 200 ug

Specification

Product Description	Mouse monoclonal antibody raised against native ITGA1.
Immunogen	Native purified ITGA1 from human thymoma cell line HPB-ALL.
Host	Mouse
Reactivity	Human
Specificity	TS2/7 recognizes the human alpha 1 integrin sub-unit, which forms the VLA-1 heterodimer in association with the beta 1 integrin. VLA-1 is a receptor for collagen and laminin, and is expressed by chronically activated T cells, melanoma cells and smooth muscle cells.
Form	Liquid
Isotype	IgG1
Recommend Usage	Flow Cytometry (5 ul of the antibody (neat) to label 10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Frozen sections)
- Immunoprecipitation
- Flow Cytometry

Gene Info — ITGA1

Entrez GeneID [3672](#)

Gene Name ITGA1

Gene Alias CD49a, VLA1

Gene Description integrin, alpha 1

Omim ID [192968](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes the alpha 1 subunit of integrin receptors. This protein heterodimerizes with the beta 1 subunit to form a cell-surface receptor for collagen and laminin. The heterodimeric receptor is involved in cell-cell adhesion and may play a role in inflammation and fibrosis. The alpha 1 subunit contains an inserted (I) von Willebrand factor type I domain which is thought to be involved in collagen binding. [provided by RefSeq]

Other Designations laminin and collagen receptor|very late activation protein 1

Pathway

- [Arrhythmogenic right ventricular cardiomyopathy \(ARVC\)](#)
- [ECM-receptor interaction](#)
- [Focal adhesion](#)
- [Hematopoietic cell lineage](#)
- [Hypertrophic cardiomyopathy \(HCM\)](#)
- [Regulation of actin cytoskeleton](#)

Disease

- [Attention Deficit Disorder with Hyperactivity](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Fractures](#)

- [Genetic Predisposition to Disease](#)
- [Hearing Loss](#)
- [Osteoporosis](#)
- [Thromboembolism](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tourette Syndrome](#)