

ITGB7 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16093b

Specification

ITGB7 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P26010
Other Accession	NP_000880.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	86903
Antigen Region	737-765

ITGB7 Antibody (C-term) - Additional Information

Gene ID 3695

Other Names

Integrin beta-7, Gut homing receptor beta subunit, ITGB7

Target/Specificity

This ITGB7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 737-765 amino acids from the C-terminal region of human ITGB7.

Dilution

WB~1:1000

Format

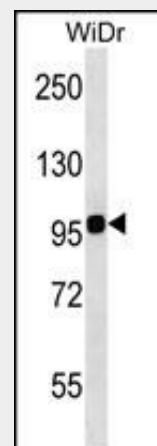
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ITGB7 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.



ITGB7 Antibody (C-term) (Cat. #AP16093b) western blot analysis in WiDr cell line lysates (35ug/lane). This demonstrates the ITGB7 antibody detected the ITGB7 protein (arrow).

ITGB7 Antibody (C-term) - Background

Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin.

ITGB7 Antibody (C-term) - References

Cicala, C., et al. Proc. Natl. Acad. Sci. U.S.A. 106(49):20877-20882(2009)

ITGB7 Antibody (C-term) - Protein Information**Name** ITGB7**Function**

Integrin alpha-4/beta-7 (Peyer patches-specific homing receptor LPAM-1) is an adhesion molecule that mediates lymphocyte migration and homing to gut-associated lymphoid tissue (GALT). Integrin alpha-4/beta-7 interacts with the cell surface adhesion molecules MADCAM1 which is normally expressed by the vascular endothelium of the gastrointestinal tract. Interacts also with VCAM1 and fibronectin, an extracellular matrix component. It recognizes one or more domains within the alternatively spliced CS-1 region of fibronectin. Interactions involves the tripeptide L-D-T in MADCAM1, and L-D-V in fibronectin. Binds to HIV-1 gp120, thereby allowing the virus to enter GALT, which is thought to be the major trigger of AIDS disease. Interaction would involve a tripeptide L-D-I in HIV-1 gp120. Integrin alpha-E/beta-7 (HML-1) is a receptor for E-cadherin.

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Expressed in a variety of leukocyte lines.

Pentikainen, U., et al. J. Mol. Biol. 393(3):644-657(2009)
Lad, Y., et al. J. Biol. Chem. 283(50):35154-35163(2008)
Monteiro, P., et al. Biochem. Biophys. Res. Commun. 358(2):442-448(2007)
Le Floc'h, A., et al. J. Exp. Med. 204(3):559-570(2007)

ITGB7 Antibody (C-term) - 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](#)