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TSPAN33 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP9397B

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q86UF1
Other Accession	Q8R3S2, Q3SYV5
Reactivity	Human
Predicted	Mouse, Bovine, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB23231
Calculated MW	31538
Antigen Region	254-283

Additional Information

Gene ID	340348
Other Names	Tetraspanin-33, Tspan-33, Penumbra, hPen, Proerythroblast new membrane, TSPAN33, PEN
Target/Specificity	This TSPAN33 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 254-283 amino acids from the C-terminal region of human TSPAN33.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
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	TSPAN33 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	TSPAN33 (HGNC:28743)
Synonyms	PEN

Function	Part of TspanC8 subgroup, composed of 6 members that interact with the transmembrane metalloprotease ADAM10. This interaction is required for ADAM10 exit from the endoplasmic reticulum and for enzymatic maturation and trafficking to the cell surface as well as substrate specificity. Different TspanC8/ADAM10 complexes have distinct substrates (PubMed:26686862, PubMed:30463011, PubMed:37516108). Plays an important role in normal erythropoiesis (By similarity). It has a role in the differentiation of erythroid progenitors (By similarity). Negatively regulates ligand-induced Notch activity probably by regulating ADAM10 activity (PubMed:26686862). Mediates docking of ADAM10 to zonula adherens by interacting with ADAM10 and, in a PDZD11- dependent manner, with the zonula adherens protein PLEKHA7 (PubMed:30463011).
Cellular Location	Cell membrane; Multi-pass membrane protein. Cell junction, adherens junction. Cytoplasm. Note=Is localized to zonula adherens by PLEKHA7 by a PDZD11-dependent interaction
Tissue Location	Predominantly expressed in erythroblasts.

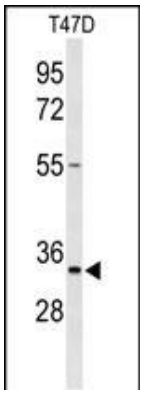
Background

TSPAN33 plays an important role in normal erythropoiesis. It has a role in the differentiation of erythroid progenitors.

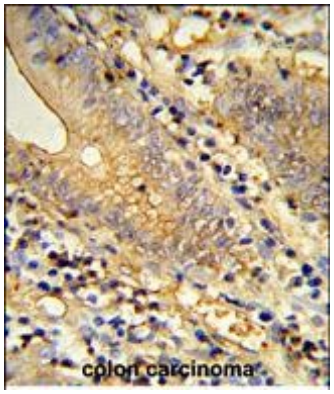
References

Heikens, M.J., et al. Blood 109(8):3244-3252(2007)
Huang, S., et al. Genomics 86(6):674-684(2005)
Chen, Z., et al. Cancer Genet. Cytogenet. 162(2):95-98(2005)

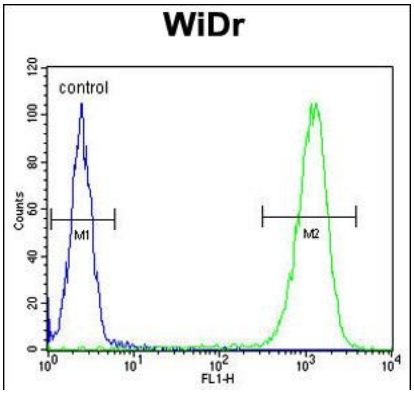
Images



Western blot analysis of TSPAN33 Antibody (C-term) (Cat. #AP9397b) in T47D cell line lysates (35ug/lane). TSPAN33 (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human colon carcinoma reacted with TSPAN33 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



TSPAN33 Antibody (C-term) (Cat. #AP9397b) flow cytometric analysis of WiDr cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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