

**TSPAN33 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP9397B****Specification**

---

**TSPAN33 Antibody (C-term) - Product Information**

Application	WB, IHC-P, FC,E
Primary Accession	<a href="#">Q86UF1</a>
Other Accession	<a href="#">Q8R3S2</a> , <a href="#">Q3SYV5</a>
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	31538
Antigen Region	254-283

**TSPAN33 Antibody (C-term) - 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~~1:50~100  
FC~~1:10~50

**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.

**TSPAN33 Antibody (C-term) - 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

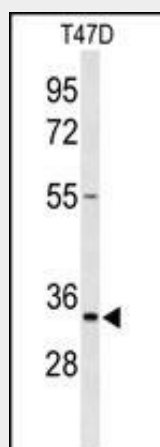
Predominantly expressed in erythroblasts.

## TSPAN33 Antibody (C-term) - Protocols

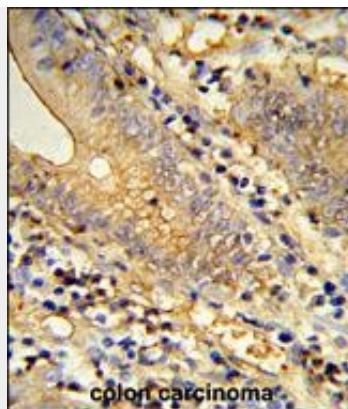
Provided below are standard protocols that you may find useful for product applications.

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

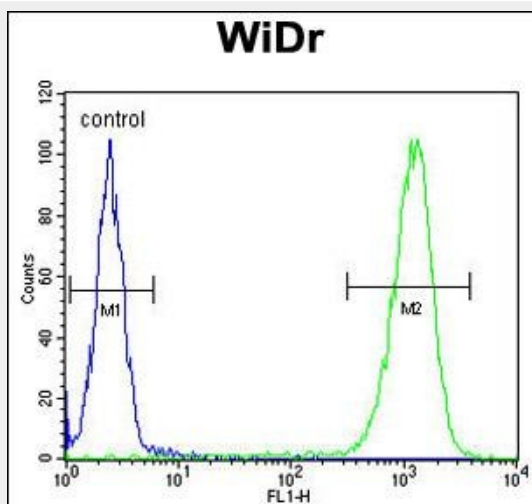
## TSPAN33 Antibody (C-term) - Images



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.

### **TSPAN33 Antibody (C-term) - Background**

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

### **TSPAN33 Antibody (C-term) - 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)