



# Mouse Anti-Tspan33 monoclonal antibody, clone 30B7.3 [FITC] (CABT-RM181)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Detects Tspan-33 and targets an epitope with in the extracellular domain.
<b>Target</b>	Tspan33
<b>Immunogen</b>	BaF3 cells expressing full-length murine Tspan-33 fused with a Myc-His tag at the C-terminus.
<b>Isotype</b>	IgM, κ
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human, Mouse
<b>Clone</b>	30B7.3
<b>Purification</b>	Protein G purified
<b>Conjugate</b>	FITC
<b>Applications</b>	FC
<b>Epitope</b>	extracellular domain
<b>Molecular Weight</b>	31.55 kDa calculated.
<b>Format</b>	Liquid
<b>Size</b>	100 µl
<b>Buffer</b>	PBS
<b>Preservative</b>	0.1% sodium azide and 1.5% BSA

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## BACKGROUND

### Introduction

Tetraspanin-33 is encoded by the Tspan33 gene in murine species. Tetraspanins are evolutionarily conserved proteins and thus far 33 of them have been described in human and murine species. Tspan-33 is a multi-pass, disulfide-linked homodimeric membrane protein of the tetraspanin (TM4SF) family. It has been reported that Tspan-33 is highly expressed in activated B cells. Its expression has also been reported in malignant B cells. Two isoforms of Tspan-33 have been described that are produced by alternative splicing. Tspan-33 plays an important role in normal erythropoiesis and in the differentiation of erythroid progenitors. Tspan-33 contains four transmembrane domains (aa 25-45, 65-85, 97-117, 236-256), three cytoplasmic domains (aa 1-24, 86-96, 257-283), and two extracellular domains (aa 46-64, 118-235). Several tetraspanins interact with specific membrane proteins via their second extracellular domain (aa 118-235) and incorporate them into tetraspanin-enriched microdomains to modulate the effectiveness of signal transduction by those membrane proteins.

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### Keywords

TSPAN33; tetraspanin 33; tetraspanin-33; MGC50844; Penumbra; 1300010A20Rik; AI035228; hPen; MGC30714; MGC50844; PEN; Penumbra; Proerythroblast new membrane; RGD1560915; Tetraspanin-33; TSN33; TSN33\_HUMAN; Tspan-33; TSPAN33; Tspan33 tetraspanin 33; hPen

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## GENE INFORMATION

### Entrez Gene ID

[232670](#)

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### UniProt ID

[Q8R3S2](#)

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