Mouse Anti-BCAP31 monoclonal antibody, clone 255-B9 (CABT-RM126)

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

PRODUCT INFORMATION

Specificity	Detects human Cell surface B-cell receptor-associated protein 31 (csBAP31). It targets an epitope within 10 amino acids from the C-terminal region.
Target	BCAP31
Immunogen	H9 human embryonic stem cells pretreated with retinoic acid.
Isotype	IgG1, κ
Source/Host	Mouse
Species Reactivity	Human
Clone	255-B9
Purification	Protein G purified
Conjugate	unconjugated
Applications	ELISA, FC, IP, WB
Molecular Weight	27.99 kDa calculated.
Format	Liquid
Size	100 µl
Buffer	0.1 M Tris-Glycine (pH 7.4), 150 mM NaCl
Preservative	0.05% sodium azide

Storage	Stable for 1 year at 2-8°C from date of receipt.

BACKGROUND

Introduction	B-cell receptor-associated protein 31 is encoded by the BCAP31 gene in human. BAP31 is an endoplasmic reticulum (ER) membrane protein that is also expressed on surface (csBAP31) of embryonic stem cells. ER associated BAP1 palsy a significant role as a molecular chaperone for the newly synthesized transmembrane proteins and also acts as an important regulator of apoptosis. It interacts with pro-caspase-8L and Bcl-2/Bcl-xL on the ER membrane and is cleaved by caspase-8. The resulting cleaved product, p20, is an important inducer of apoptosis. The cell surface expressed BAP31 is shown to promote cell survival through the regulation of cell adhesion to the extracellular matrix in human embryonic stem cells. csBAP31 is also suggested to be a putative pro-apoptotic flag on cancer cells. Its expression is shown to be enhanced in caspase3/7 high A549 cells and csBAP31-positive cells display diminished survival capacity. Higher levels of csBAP31 are reported to contribute to poor survival cancer cells.
Keywords	BCAP31; B-cell receptor-associated protein 31; CDM; DDCH; BAP31; 6C6-AG; DXS1357E; p28 Bap31; BCR-associated protein Bap31; 6C6-AG tumor-associated antigen

GENE INFORMATION

Entrez Gene ID	10134
UniProt ID	P51572

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