For Research Use Only

CoraLite® Plus 488-conjugated CD133 Monoclonal antibody

Catalog Number:CL488-66666 2 Publications

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Basic Information

Catalog Number:
CL488-66666

Size:
1000 μg/ml

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
AG13327

GenBank Accession Number:
BC012089

GeneID (NCBI):
8842

UNIPROT ID:
O43490

Full Name:
prominin 1

Calculated MW:
97 kDa

Observed MW:
115 kDa, 80-90 kDa

Purification Method:
Protein G purification

CloneNo.:
2B8A2

Excitation/Emission maxima wavelengths:
493 nm / 522 nm

Applications

Tested Applications:

Species Specificity:
Human

Cited Species:
human

Background Information

CD133, also known as PROM1 (prominin-1) or AC133, belongs to the prominin family. CD133 is a transmembrane glycoprotein with an NH2-terminal extracellular domain, five transmembrane loops and a cytoplasmic tail. The expression of CD133 has been reported in hematopoietic stem cells, endothelial progenitor cells, neuronal and glial stem cells, suggesting the potential role of CD133 as a cell surface marker of adult stem cells. CD133 has also been reported as a marker of cancer stem cells in various human tumors. CD133 is a highly glycosylated protein with an apparent molecular weight of 115-120 kDa. After the treatment of the lysates with glycosidase, CD133 shifted to a protein with an apparent molecular weight of 80-90 kDa (PMID: 23150174; 20068153).

Notable Publications

Author	Pubmed ID	Journal	Application
Ke Huang	39515408	Exp Cell Res	
Binghuang Zhang	38911389	J Cancer	

Storage

Storage:
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.
Storage Buffer:
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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Selected Validation Data