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Anti-CD133 Rabbit mAb [41E34]

Catalog No.: A52049

Basic Information

Catalog No. (Cat.No.)	A52049
Host species	Rabbit
Reactivity	Human
Applications	WB,IHC,IF,ELISA
Synonyms	CD133,AC133,PROM1

Product Information

Target	CD133
Molecular Weight(Calculated)	97 kDa
Molecular Weight(Observed)	133 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	41E34
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:20-1:100
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Prominin-1
Gene Name	*PROM1*
Domain	NA
Background	CD133 (Prominin-1) is a pentaspan transmembrane glycoprotein family member responsible for plasma membrane protrusion maintenance and stem-cell-related signal regulation. Localized on microvilli and ciliary membrane protrusions, CD133 was first identified as hematopoietic stem cell marker, and later found on multiple tissue stem cells as well as cancer stem cells. CD133 sustains membrane topology, modulates cell polarity and participates in signaling vesicle trafficking. Cumulative evidence demonstrates CD133-positive cancer stem cells possess self-renewal capacity, drug-resistance and high tumorigenicity, correlating with tumor relapse and metastasis. CD133 is commonly used for isolation and characterization of cancer stem cells in brain tumor, colorectal carcinoma and other malignancies, as well as normal tissue stem cell biology investigation.