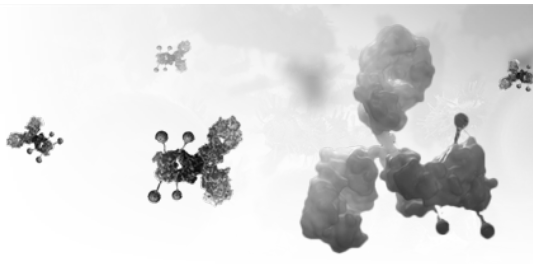

Anti-PROM1 polyclonal antibody (DPAB4276RH)

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

PRODUCT INFORMATION

Product Overview	CD133 Concentrated Polyclonal Antibody
Antigen Description	Antigen detection, in tissues and cells, is a multi-step immunohistochemical process. The initial step binds the primary antibody to its specific epitope. After labelling the antigen with a primary antibody, a universal, affinity-purified, secondary antibody is added to bind to the primary antibody. An enzyme label is then added to bind to the secondary antibody; this detection of the bound antibody is evidenced by a colorimetric reaction. CD133 also known as Prominin 1 in the human and rodent is expressed in endothelial progenitor cells, neuronal stem cells, glioblastoma, glial stem cells and some normal tissues such as kidney and brain. According to the cancer stem cell hypothesis, CD133-positive cells determine long-term tumour growth and, therefore, are suspected to influence clinical outcome. Recent studies have determined that the expression of CD133 correlates with patient survival in gliomas, giving credence to the current cancer stem cell hypothesis. BRCA-1 breast tumours have been shown to contain distinct CD133+ cells with cancer stem cell characteristics.
Immunogen	CD133
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Conjugate	Unconjugated
Applications	IHC-P
Cellular Localization	Cytoplasmic
Positive Control	Kidney

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Preservative	None
Storage	Store at 2ºC to 8ºC. Do not use after expiration date printed on vial. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user. Diluted reagents should be used promptly; any remaining reagent should be stored at 2ºC to 8ºC.

GENE INFORMATION

Gene Name	PROM1 prominin 1 [Homo sapiens]
Official Symbol	PROM1
Synonyms	PROM1; prominin 1; prominin (mouse)-like 1; AC133; Stargardt disease 4 (autosomal dominant); CD133; OTTHUMP00000217744; RP41; OTTHUMP00000217745; PROML1; OTTHUMP00000217746; Antigen AC133; hProminin; Prominin-like protein 1; hematopoietic stem cell antigen; CORD12; prominin-1; MCDR2; prominin-like 1; STGD4; CD133 antigen; macular dystrophy, retinal 2; MSTP061
Entrez Gene ID	8842
Protein Refseq	NP_001139319
UniProt ID	O43490
Chromosome Location	4p15.32
Function	beta-actinin binding; cadherin binding

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