Recombinant Anti-PROM1 Antibody (V3S-0622-YC2494)

Cat. No.: V3S-0622-YC2494

Summary

Description	This product is a monoclonal antibody derived from mouse, which can specifically recognize PROM1. The antibody is expressed with mammalian cell transient expression system, serum -free and purified by affinity chromatography. The purity and integrity are tested via SDS-PAG E and SEC-HPLC analysis. Given an antigen, additional QC measures are also desired such as affinity testing and binding validation. Specifically, the antibody is provided in multiple formats for in vivo and in vitro assays. The *In vivo* version features greater than 95% purity, ultra-low endotoxin levels (<1 EU/mg or 0.1 E U/mg), and is preservative, stabilizer, and carrier protein-free.
Clonality	Monoclonal
Host Species	Mouse
Target Species	Human
Isotype	IgG1
Isotype Control	C60052; C51237
Secondary Antibody	C47504; C37557; C41360; C32672; C10001

Property

Expression Species	HEK293F or CHO
Conjugation	None
Purity	>95%, determined by SDS-PAGE and/or SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Protein A affinity purified
Sterility	0.2 μM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4^{0}C within a week. For longer storage, aliquot and store at -20^{0}C.

Applications

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Application	ELISA
Application Notes	The antibody is recommended for detection of PROM1 by ELISA assay.

Target

Target	PROM1
Alternative Name	PROM1; prominin 1; RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP061; prominin-1; hProminin; antigen AC133; prominin-like protein 1; hematopoietic stem cell antigen
Gene ID	8842
UniProt	O43490
Introduction	This is a pentaspan transmembrane glycoprotein. The protein localizes to membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of This is a lso associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple transcript variants encoding different isoforms have been found for this gene.
Research Area	Neuroscience
Proceedings of R&D	Diseases associated with PROM1 include Macular Dystrophy, Retinal, 2 and Cone-Rod Dystrophy 12. Among its related pathways are Embryonic and Induced Pluripotent Stem Cell Differentiation Pathways and Lineage-specific Markers and Transcriptional misregulation in cancer. Gene Ontology (GO) annotations related to this gene include cadherin binding and actinin binding. An important paralog of this gene is PROM2.

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