

Recombinant Anti-PROM1 Antibody (V3S-1022-YC2602)

Cat. No.: V3S-1022-YC2602

Summary

Description	This product is a recombinant Mouse antibody provided by CreativeBiolabs. The antibody is specific for Prominin 1. It can be used for Prominin 1 detection in Enzyme-Linked Immunosorbent Assay, Immunofluorescence, Immunohistochemistry and Flow Cytometry. It was expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultrapurified form of the product, which has a lower endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg.
Clonality	Monoclonal
Host Species	Mouse
Target Species	Human
Isotype	IgG
Isotype Control	C35500
Secondary Antibody	C37557; C41360; C32672; C10001

Property

Expression Species	HEK293F or CHO Cell line
Conjugation	Unconjugated, also available for Biotin, HRP, FITC and PE-labeled form.
Purity	>95%, determined by SDS-PAGE and SEC-HPLC
Endotoxin	<1 EU/mg, determined by LAL method
Purification	Purified with Protein A or G affinity chromatography
Sterility	0.2 µM filtered
Formulation	PBS, pH 7.4
Preservation	No preservatives
Stabilizer	No stabilizers
Storage	Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Applications

Application ELISA; IF; IHC; FC

Target

Target PROM1

Alternative Name PROM1; prominin 1; RP41; AC133; CD133; MCDR2; STGD4; CORD12; PROML1; MSTP06 1; prominin-1; hProminin; antigen AC133; prominin-like protein 1; hematopoietic stem cell antigen

Gene ID [8842](#)

UniProt [O43490](#)

Introduction 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.

Research Area Neuroscience; Stem Cell; Cancer Research

Related Disease Cancer

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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