

Product Name: KO-Validated Prominin Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00110

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000
Molecular Weight	Calculated MW: 97.2kDa

Antigen Information

Gene Name	PROM1 PROM1; Prominin ; CORD12; PROML1; AC133; CD133; RP41; Retinitis Pigmentosa 41, Cone-Rod Dystrophy 1; Prominin-Like Protein 1; AC133 Antigen; Antigen AC133; Prominin-1;
Alternative Names	MCDR2; STGD4; Stargardt Disease 4 (Autosomal Dominant); Hematopoietic Stem Cell Antigen; Macular Dystrophy, Retinal 2; Prominin (Mouse)-Like 1; CD133 Antigen; HProminin; MSTP061
Gene ID	8842.0
SwissProt ID	O43490
Immunogen	A synthesized peptide derived from human CD133

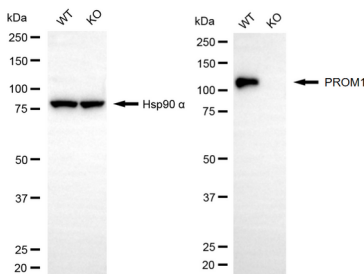
Background

This gene encodes 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 gene is also 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. [provided by RefSeq, Mar 2009]

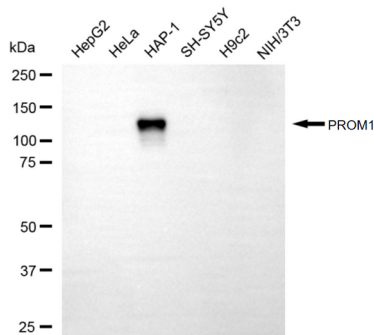
Research Area

Neuroscience, Stem Cells

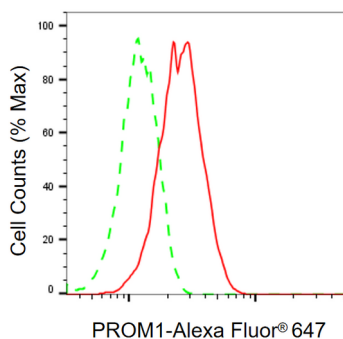
Image Data



Western blotting analysis using PROM1 antibody (KVA00110). PROM1 expression in wild-type (WT) and PROM1 knockout (KO) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PROM1 antibody (KVA00110, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PROM1 antibody (KVA00110). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PROM1 antibody (KVA00110, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of PROM1 expression in HAP-1 cells using PROM1 antibody (KVA00110, 1:2,000). Green, isotype control; red, PROM1.