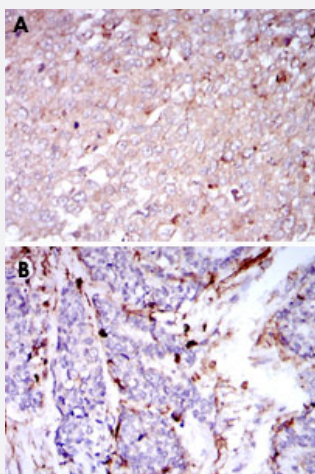


PROM1 monoclonal antibody, clone 3F10

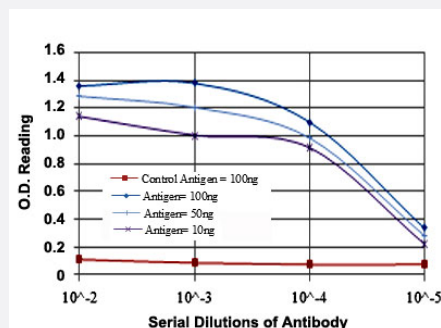
Catalog # MAB10525 Size 100 uL

Applications



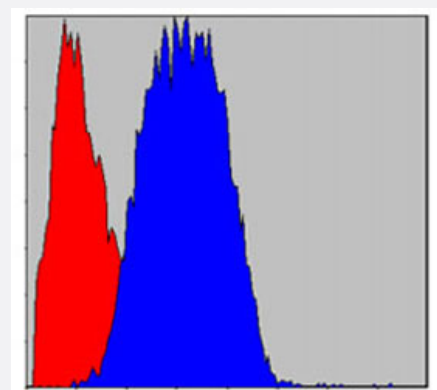
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissues (A) and human esophageal cancer tissues (B) using PROM1 monoclonal antibody, clone 3F10 (Cat # MAB10525) with DAB staining.



Enzyme-linked Immunoabsorbent Assay

ELISA detection with PROM1 monoclonal antibody, clone 3F10 (Cat # MAB10525).



Flow Cytometry

Flow cytometric analysis of HeLa cells using PROM1 monoclonal antibody, clone 3F10 (Cat # MAB10525) (blue) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of PROM1.
Immunogen	A synthetic peptide corresponding to amino acids 20-36 of human PROM1.
Sequence	GGQPSSTDAPKAWNYEL
Host	Mouse
Theoretical MW (kDa)	133
Reactivity	Human
Form	Liquid
Isotype	IgG1
Recommend Usage	ELISA (1:10000) Flow cytometry (1:200-1:400) Immunohistochemistry (1:200-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In ascites (0.03% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast cancer tissues (A) and human esophageal cancer tissues (B) using PROM1 monoclonal antibody, clone 3F10 (Cat # MAB10525) with DAB staining.

- Enzyme-linked Immunoabsorbent Assay

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Flow cytometric analysis of HeLa cells using PROM1 monoclonal antibody, clone 3F10 (Cat # MAB10525) (blue) and negative control (red).

Gene Info — PROM1

Entrez GeneID	8842
Gene Name	PROM1
Gene Alias	AC133, CD133, MSTP061, PROML1, RP41
Gene Description	prominin 1
Omim ID	604365
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	hProminin hematopoietic stem cell antigen prominin-like 1

Publication Reference

- [All-trans retinoic acid suppresses malignant characteristics of CD133-positive thyroid cancer stem cells and induces apoptosis.](#)

Mei D, Lv B, Chen B, Xiao S, Jiang J, Xie Y, Jiang L.
PLoS One 2017 Aug; 12(8):e0182835.

Application: IF, IHC-P, Human, ARO, TT2609, and BHP10-3 cell lines, Human thyroid tumor tissues
- [Evaluation of Breast Cancer Stem Cells and Intratumor Stemness Heterogeneity in Triple-negative Breast Cancer as Prognostic Factors.](#)

Yang F, Cao L, Sun Z, Jin J, Fang H, Zhang W, Guan X.
International Journal of Biological Sciences 2016 Dec; 12(12):1568.

Application: IHC-P, Human, Human breast cancer
- [Isolation of human salivary extracellular vesicles by iodixanol density gradient ultracentrifugation and their characterizations.](#)

Iwai K, Minamisawa T, Suga K, Yajima Y, Shiba K.
Journal of Extracellular Vesicles 2016 May; 5:30829.

Application: WB, Human, Human saliva

Disease

- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Neoplasms](#)
- [Recurrence](#)
- [Tobacco Use Disorder](#)