



EMMPRIN Rabbit mAb

Catalog No	YP-rAb-16992
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Gene Name	BSG
Protein Name	Basigin
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:500; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15 ° C to -25 ° C/1 year(Do not lower than -25 ° C)
Synonyms	BSG ; Basigin ; 5F7 ; Collagenase stimulatory factor ; Extracellular matrix metalloproteinase inducer ; EMMPRIN ; Leukocyte activation antigen M6 ; OK blood group antigen ; Tumor cell-derived collagenase stimulatory factor ; TCSF ; CD antigen CD147
Observed Band	43-55kD
Calculated Molecular Weight	42kD
Cell Pathway	Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. . ; [Isoform 1]: Cell membrane ; Single-pass type I membrane protein . Photoreceptor inner segment . Cell projection, cilium, photoreceptor outer segment . ; [Isoform 2]: Cell membrane ; Single-pass type I membrane protein . Endosome . Endoplasmic reticulum membrane ; Single-pass type I membrane protein . Basolateral cell membrane ; Single-pass type I membrane protein . ; [Isoform 3]: Cell membrane ; Single-pass type I membrane protein . ; [Isoform 4]: Cell membrane ; Single-pass type I membrane protein .
Tissue Specificity	[Isoform 1]: Retina-specific (PubMed:25957687). Expressed in retinal cone photoreceptors (at protein level) (PubMed:25957687). . ; [Isoform 2]: Expressed in erythrocytes (at protein level) (PubMed:26195724, PubMed:28409866). Highly expressed in melanoma cell lines (at protein level) (PubMed:11992541). Highly expressed in the heart, kidney, skeletal muscle and testis (PubMed:21536654). . ; [Isoform 3]: Highly expressed in the bone marrow, fetal liver, lung, testis and





thymus. ; [Isoform 4]: Highly expressed in the bone marrow, fetal liver, lung, testis and thymus.

Function

Plays pivotal roles in spermatogenesis, embryo implantation, neural network formation and tumor progression. Stimulates adjacent fibroblasts to produce matrix metalloproteinases (MMPs). May target monocarboxylate transporters SLC16A1, SLC16A3 and SLC16A8 to plasma membranes of retinal pigment epithelium and neural retina. Seems to be a receptor for oligomannosidic glycans. In vitro, promotes outgrowth of astrocytic processes. Induction: Enriched on the surface of tumor cells. Up-regulated in gliomas. Its expression levels correlate with malignant potential of the tumor. Online information: Blood group antigen gene mutation database, PTM: N-glycosylated. Similarity: Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Similarity: Contains 1 Ig-like V-type (immunoglobulin-like) domain. Subcellular location: Colocalizes with SLC16A1 and SLC16A8 (By similarity). Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Subunit: Forms homooligomers in a cis-dependent manner on the plasma membrane. Forms a complex with MMP1 at the tumor cell surface. Interacts with SLC16A1 and SLC1A3; probably a BSG dimer is associated with a monocarboxylate transporter dimer. Interacts with ATP1B2, MAG and L1CAM (By similarity). Interacts with AJAP1. Tissue specificity: Present only in vascular endothelium in non-neoplastic regions of the brain, whereas it is present in tumor cells but not in proliferating blood vessels in malignant gliomas.

Background

The protein encoded by this gene is a plasma membrane protein that is important in spermatogenesis, embryo implantation, neural network formation, and tumor progression. The encoded protein is also a member of the immunoglobulin superfamily. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

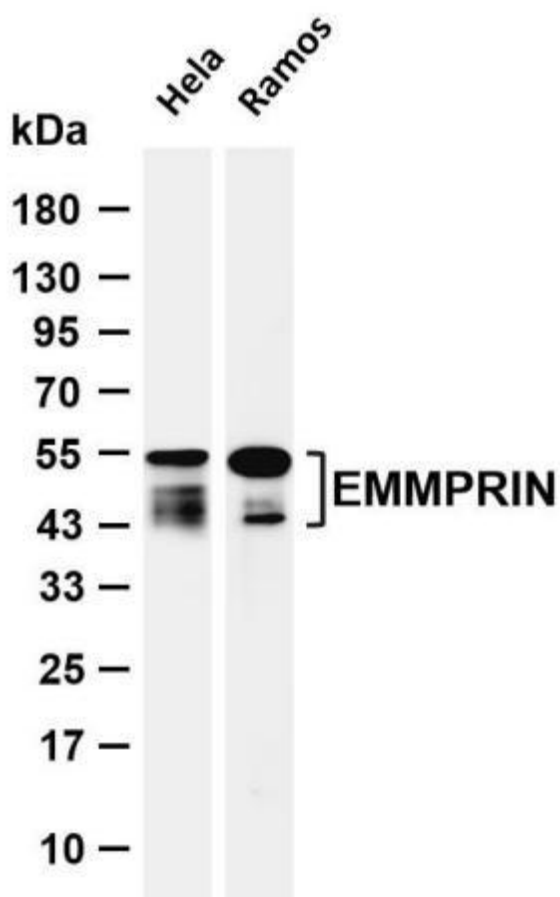
matters needing attention

Avoid repeated freezing and thawing!

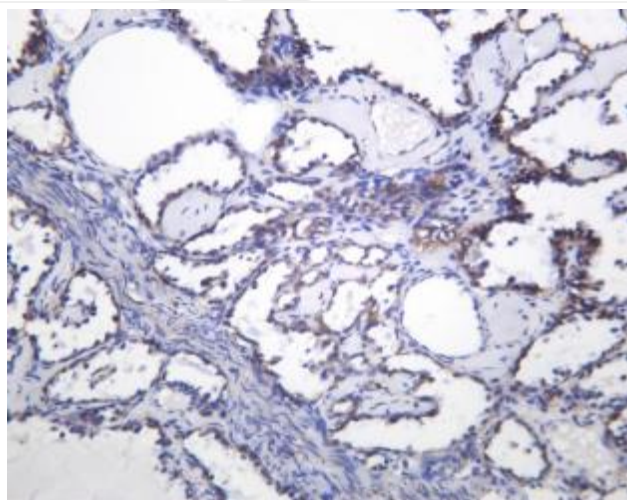
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.





Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-EMMPRIN antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: HeLa Lane 2: Ramos Predicted band size: 42kDa Observed band size: 43-55kDa



Human ovarian carcinoma was stained with anti-EMMPRIN Rabbit antibody

