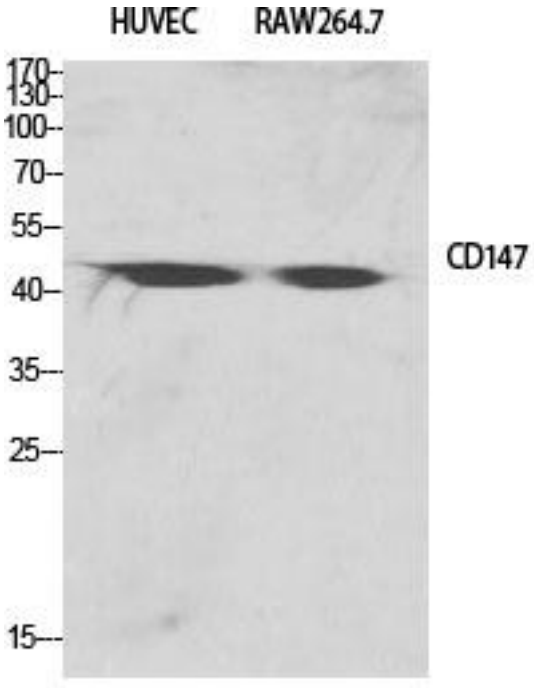
EMMPRIN Monoclonal Antibody

Catalog No	YP-mAb-02632
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	BSG
Protein Name	Basigin
Immunogen	The antiserum was produced against synthesized peptide derived from human CD147. AA range:336-385
Specificity	EMMPRIN Monoclonal Antibody detects endogenous levels of EMMPRIN protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
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	50kD
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	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 spec
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.

Products Images



Western Blot analysis of various cells using EMMPRIN Monoclonal Antibody