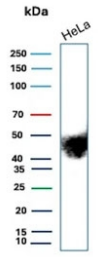
CD147 Antibody / Emmprin / Basigin [clone BSG/9290R] (V5541)

Catalog No.	Formulation	Size
V5541-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5541-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5541SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

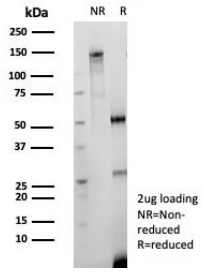
Recombinant RABBIT MONOCLONAL

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	BSG/9290R
Purity	Protein A/G affinity
UniProt	P35613
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE): 1-2ug/ml Western blot: 2-4ug/ml
Limitations	This CD147/Emmprin antibody is available for research use only.



Western blot testing of human HeLa cell lysate with CD147/Emmprin antibody (clone BSG/9290R). Expected molecular weight: 27-66 kDa depending on level of glycosylation.



SDS-PAGE analysis of purified recombinant CD147/Emmprin antibody (clone BSG/9290R) as confirmation of integrity and purity.

Description

CD147 antibody, also known as Emmprin antibody, recognizes Basigin, a transmembrane glycoprotein encoded by the human BSG gene located on chromosome 19p13.3. Basigin is a member of the immunoglobulin superfamily and is widely referred to in the literature as CD147, EMMPRIN, and Extracellular matrix metalloproteinase inducer. CD147 is predominantly localized to the plasma membrane, where it participates in cell-cell and cell-matrix interactions and modulates extracellular signaling pathways. CD147 antibody is commonly used in research examining tumor progression, inflammation, and metabolic regulation.

Basigin contains two extracellular immunoglobulin-like domains, a single-pass transmembrane region, and a short cytoplasmic tail. Through its extracellular domains, CD147 interacts with integrins, cyclophilins, and matrix metalloproteinases, facilitating extracellular matrix remodeling and intercellular communication. Emmprin was originally characterized for its ability to stimulate matrix metalloproteinase production in adjacent fibroblasts, promoting tumor invasion and tissue remodeling. CD147 antibody supports investigation of these matrix-regulatory processes and stromal interactions.

CD147 is broadly expressed in epithelial cells, endothelial cells, leukocytes, and numerous tumor cell types. It is highly expressed in a wide range of malignancies including breast, lung, colorectal, hepatocellular, and head and neck cancers, where elevated expression is associated with tumor progression, angiogenesis, and metastasis. In addition to its role in matrix remodeling, Basigin regulates cellular metabolism through its association with monocarboxylate transporters, supporting lactate transport in highly glycolytic cells. CD147 antibody is therefore frequently used in studies of tumor metabolism and hypoxic microenvironments.

Beyond oncology, CD147 participates in immune and inflammatory responses. It functions as a receptor for extracellular cyclophilins and contributes to leukocyte activation and chemotaxis. Expression is also observed in reproductive tissues and developing organs, reflecting roles in tissue remodeling and cellular differentiation. Clone BSG/9290R is a recombinant rabbit monoclonal antibody developed to recognize CD147 for research applications. This antibody targets Basigin in research settings and supports studies of cancer biology, inflammation, and metabolic regulation.

Application Notes

Optimal dilution of the CD147/Emmprin antibody should be determined by the researcher.

Immunogen

A recombinant fragment (within amino acids 100-300) of human BSG protein was used as the immunogen for the CD147/Emmprin antibody.

Storage

Aliquot the CD147/Emmprin antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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