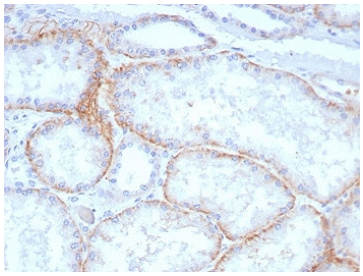
HAb18G Antibody / CD147 / Emmprin / Basigin [clone BSG/7957] (V4607)

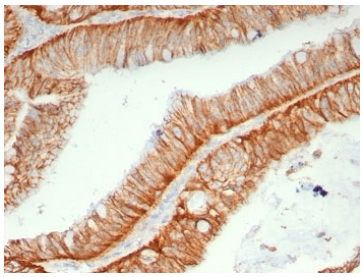
Catalog No.	Formulation	Size
V4607-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V4607-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V4607SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

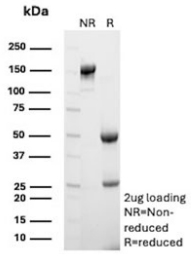
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG
Clone Name	BSG/7957
Purity	Protein A/G affinity
UniProt	P35613
Localization	Cell surface
Applications	ELISA (Order BSA-free Format For Coating) : Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This HAb18G/CD147 antibody is available for research use only.



Immunohistochemistry analysis of HAb18G antibody in human renal cell carcinoma tissue (clone BSG/7957). FFPE human renal cell carcinoma sections demonstrate HRP-DAB brown membranous and cytoplasmic staining in tumor epithelial cells forming tubular and glandular structures. The staining highlights cell surface localization consistent with CD147 Basigin expression in neoplastic cells, with minimal background in surrounding stromal elements. Heat induced epitope retrieval was performed by boiling tissue sections in pH 9 10 mM Tris with 1 mM EDTA for 20 minutes followed by cooling prior to antibody incubation.



IHC staining of FFPE human colon carcinoma tissue with HAb18G/CD147 antibody (clone BSG/7957). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



SDS-PAGE analysis of purified, BSA-free HAb18G/CD147 antibody (clone BSG/7957) as confirmation of integrity and purity.

Description

HAb18G antibody, also known as CD147 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. HAb18G represents a commonly cited designation for CD147 in cancer research studies. CD147 is predominantly localized to the plasma membrane, where it regulates cell-cell interactions and extracellular signaling. HAb18G antibody is frequently used in research examining tumor progression and stromal remodeling.

Basigin contains two extracellular immunoglobulin-like domains, a single-pass transmembrane region, and a short cytoplasmic tail. Through these extracellular domains, CD147 interacts with integrins, cyclophilins, and matrix metalloproteinases, promoting extracellular matrix degradation and intercellular communication. The Emmprin designation reflects its role in stimulating matrix metalloproteinase production in neighboring stromal fibroblasts, a process associated with tumor invasion and tissue remodeling. HAb18G antibody supports investigation of these matrix-associated signaling mechanisms.

CD147 is broadly expressed in epithelial cells, endothelial cells, leukocytes, and a variety of tumor cell types. Increased expression has been reported in breast, lung, colorectal, hepatocellular, and head and neck cancers, where elevated CD147 levels correlate with invasive growth and angiogenesis. In addition to its involvement in matrix remodeling, Basigin associates with monocarboxylate transporters to facilitate lactate export, supporting metabolic adaptation in highly glycolytic tumor cells. HAb18G antibody is therefore commonly applied in studies of tumor metabolism and hypoxic microenvironments.

Beyond oncology, CD147 participates in immune and inflammatory responses. It serves as a receptor for extracellular cyclophilins and contributes to leukocyte activation and migration. Expression is also detected in reproductive tissues and during development, reflecting broader roles in tissue remodeling and cellular differentiation. Clone BSG/7957 is designed 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 HAb18G/CD147 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human protein was used as the immunogen for the HAb18G/CD147 antibody.

Storage

Aliquot the HAb18G/CD147 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.