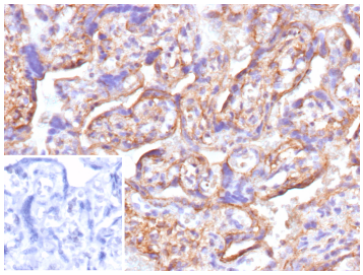
Emmprin Antibody / CD147 / Basigin [clone rAB1843] (V6004)

Catalog No.	Formulation	Size
V6004-100UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	100 ug
V6004-20UG	0.2 mg/ml in 1X PBS with 0.05% BSA, 0.05% sodium azide	20 ug
V6004SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

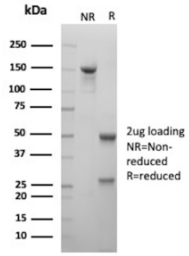
Recombinant MOUSE MONOCLONAL

Bulk quote request

Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Recombinant Mouse Monoclonal
Isotype	Mouse IgG1, kappa
Clone Name	rAB1843
UniProt	P35613
Localization	Cell membrane
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml Western Blot : 2-4ug/ml
Limitations	This Emmprin/CD147 antibody is available for research use only.



Immunohistochemistry analysis of Emmprin / CD147 antibody in human placenta tissue (clone rAB1843). FFPE human placental sections demonstrate HRP-DAB brown membranous and cytoplasmic staining in trophoblastic cells lining chorionic villi, highlighting strong cell surface localization consistent with Basigin expression. Stromal elements show comparatively weaker signal. The inset shows PBS used in place of primary antibody as a secondary antibody negative control, demonstrating absence of specific brown staining.



SDS-PAGE Analysis of Purified Emmprin/CD147 antibody (rAB1843). Confirmation of Purity and Integrity of Antibody.

Description

Emmprin 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. Emmprin antibody detects a protein predominantly localized to the plasma membrane, where it regulates cell-cell communication and extracellular matrix interactions.

Basigin contains two extracellular immunoglobulin-like domains, a single transmembrane region, and a short cytoplasmic tail. Through its extracellular domains, CD147 interacts with integrins, cyclophilins, and matrix metalloproteinases, contributing to extracellular matrix remodeling and stromal activation. The Emmprin designation reflects its capacity to stimulate matrix metalloproteinase production in adjacent fibroblasts, promoting tissue invasion and remodeling. Emmprin antibody supports research focused on tumor-stroma signaling and matrix degradation pathways.

CD147 is broadly expressed in epithelial cells, endothelial cells, leukocytes, and numerous tumor cell types. Elevated expression has been documented in breast, lung, colorectal, hepatocellular, and head and neck cancers, where increased CD147 levels correlate with tumor progression, angiogenesis, and metastatic potential. In addition to its role in matrix remodeling, Basigin associates with monocarboxylate transporters to facilitate lactate export in highly glycolytic tumor cells, linking CD147 to metabolic adaptation. Emmprin antibody is therefore commonly applied in studies of tumor metabolism and hypoxic microenvironments.

Beyond oncology, CD147 participates in immune and inflammatory signaling. It functions as a receptor for extracellular cyclophilins and contributes to leukocyte activation and migration. Expression is also observed in reproductive tissues and during development, reflecting broader roles in tissue remodeling and cellular differentiation. Clone rAB1843 is a recombinant mouse monoclonal antibody developed to recognize CD147 for research applications. This antibody targets Basigin in research settings and supports investigations into cancer biology, inflammation, and metabolic regulation.

Application Notes

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

2. This Emmprin/CD147 antibody is recombinantly produced by expression in CHO cells.

Immunogen

Recombinant human BSG protein was used as the immunogen for the Emmprin/CD147 antibody.

Storage

Emmprin/CD147 antibody with sodium azide - store at 2 to 8oC; antibody without sodium azide - store at -20 to -80oC.

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