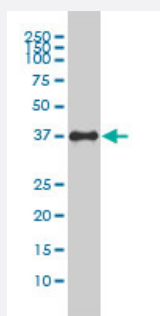


F11R monoclonal antibody (M01), clone 2E3-1C8

Catalog # H00050848-M01

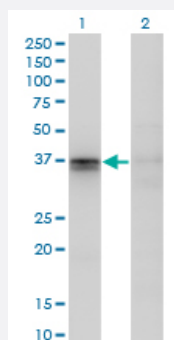
Size 100 ug

Applications



Western Blot (Cell lysate)

F11R monoclonal antibody (M01), clone 2E3-1C8 Western Blot analysis of F11R expression in HepG2 (Cat # L019V1).

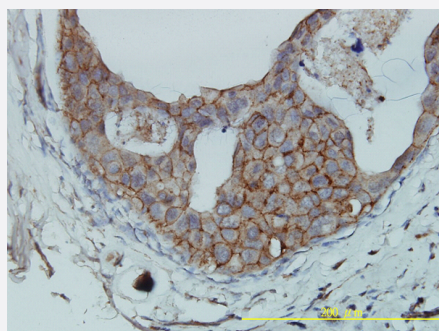


Western Blot (Transfected lysate)

Western Blot analysis of F11R expression in transfected 293T cell line by F11R monoclonal antibody (M01), clone 2E3-1C8.

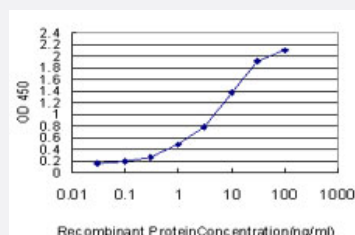
Lane 1: F11R transfected lysate (Predicted MW: 32.6 KDa).

Lane 2: Non-transfected lysate.



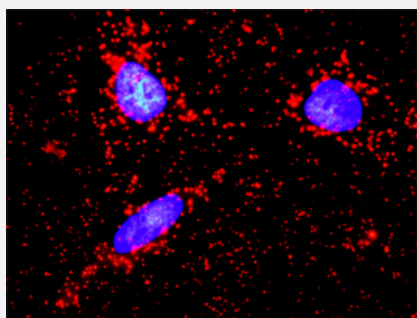
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to F11R on formalin-fixed paraffin-embedded human breast cancer tissue. [antibody concentration 1 ug/ml]



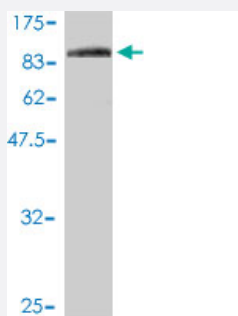
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged F11R is approximately 0.1ng/ml as a capture antibody.



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PRKCZ and F11R. HeLa cells were stained with anti-PRKCZ rabbit purified polyclonal 1:1200 and anti-F11R mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (58.63 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant F11R.
Immunogen	F11R (AAH01533, 1 a.a. ~ 299 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGTKAQVERKLLCLFILAILLCSLALGSVTVHSSEPEVRIPENNPVKLSLAYSGFSSPRVEWKFDQ GDTRLVCYNNKITASYEDRVTFLLPTGITFKSVTREDTGTTCMVSEEGGNSYGEVKVKLMLVPPS KPTVNIPSSATIGNRAVLCSEQDGSPPEYTWFKDGMPTNPKSTRAFSNSSVYLNPTTGELVF DPLSASDTGEYSCEARNGYGTPMTSNAVRMEAVERNVGVVAAVLVTLILLGILVFGWFAYSRGH FDRTKKGTSSKKVIYSQPSARSEGEFKQTSSFLV
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (68); Rat (71)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (58.63 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

F11R monoclonal antibody (M01), clone 2E3-1C8 Western Blot analysis of F11R expression in HepG2 (Cat # L019V1).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of F11R expression in transfected 293T cell line by F11R monoclonal antibody (M01), clone 2E3-1C8.

Lane 1: F11R transfected lysate (Predicted MW: 32.6 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to F11R on formalin-fixed paraffin-embedded human breast cancer tissue. [antibody concentration 1 ug/ml]

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged F11R is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- *In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between PRKCZ and F11R. HeLa cells were stained with anti-PRKCZ rabbit purified polyclonal 1:1200 and anti-F11R mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — F11R

Entrez GeneID

[50848](#)

GeneBank Accession#

[BC001533](#)

Protein Accession#	AAH01533
Gene Name	F11R
Gene Alias	CD321, JAM, JAM-1, JAM-A, JAM1, JAMA, JCAM, KAT, PAM-1
Gene Description	F11 receptor
Omim ID	605721
Gene Ontology	Hyperlink
Gene Summary	Tight junctions represent one mode of cell-to-cell adhesion in epithelial or endothelial cell sheets, forming continuous seals around cells and serving as a physical barrier to prevent solutes and water from passing freely through the paracellular space. The protein encoded by this immunoglobulin superfamily gene member is an important regulator of tight junction assembly in epithelia. In addition, the encoded protein can act as (1) a receptor for reovirus, (2) a ligand for the integrin LFA1, involved in leukocyte transmigration, and (3) a platelet receptor. Multiple 5' alternatively spliced variants, encoding the same protein, have been identified but their biological validity has not been established. [provided by RefSeq]
Other Designations	OTTHUMP00000027880 OTTHUMP00000027881 junctional adhesion molecule 1 junctional adhesion molecule A platelet F11 receptor platelet adhesion molecule

Publication Reference

- [Gastrointestinal cancer-associated fibroblasts expressing Junctional Adhesion Molecule-A are amenable to infection by oncolytic reovirus.](#)

Tom J Harryvan, Matteo Golo, Nicole Dam, Mark J A Schoonderwoerd, Elham Aida Farshadi, Marten Hornsveld, Rob C Hoeben, Lukas J A C Hawinkels, Vera Kemp.

Cancer Gene Therapy 2022 Dec; 29(12):1918.

Application: IF, Mouse

- [Development of a Novel Weighted Ranking Method for Immunohistochemical Quantification of a Heterogeneously Expressed Protein in Gastro-Esophageal Cancers.](#)

Cathy E Richards, Katherine M Sheehan, Elaine W Kay, Charlotta Hedner, David Borg, Joanna Fay, Anthony O'Grady, Arnold D K Hill, Karin Jirstrom, Ann M Hopkins.

Cancers 2021 Mar; 13(6):1286.

Application: IHC, Human, Human gastro-esophageal cancers, Human tissue microarray

- [Low Junctional Adhesion molecule-A Expression Is Associated With an Epithelial to Mesenchymal Transition and Poorer Outcomes in High-Grade Serous Carcinoma of Uterine Adnexa.](#)

Laudine Communal, Mauricio Medrano, Fabrice Sircoulomb, Joshua Paterson, Martin Köbel, Kurosh Rahimi, Paul Hoskins, Dongsheng Tu, Stephanie Lheureux, Amit Oza, Laurie Ailles, Diane Provencher, Robert Rottapel, Anne-Marie Mes-Masson.

Modern Pathology 2020 Nov; 33(11):2361.

Application: IF, Human, High-grade serous carcinoma of uterine adnexa

- [Estrogen reinforces barrier formation and protects against tumor necrosis factor alpha-induced barrier dysfunction in oral epithelial cells.](#)

Choi YS, Baek K, Choi Y.

Journal of Periodontal & Implant Science 2018 Oct; 48(5):284.

Application: IF, Human, HOK-16B cells

- [Natural compound Tetrocarcin-A downregulates Junctional Adhesion Molecule-A in conjunction with HER2 and Inhibitor of Apoptosis Proteins and inhibits tumor cell growth.](#)

Vellanki SH, Cruz RGB, Jahns H, Hudson L, Sette G, Eramo A, Hopkins AM.

Cancer Letters 2019 Jan; 440-441:23.

Application: IHC-P, WB, Human, 548T, LcSc229, MCF7 cells

- [Low junctional adhesion molecule A expression correlates with poor prognosis in gastric cancer.](#)

Huang JY, Xu YY, Sun Z, Wang ZN, Zhu Z, Song YX, Luo Y, Zhang X, Xu HM.

The Journal of Surgical Research 2014 Dec; 192(2):494.

Application: IS, WB-Ce, WB-Tr, Human, Gastric cancer, GES-1, BGC-823, MGC-803, SGC-7901 cells

- [Low expression of junctional adhesion molecule A is associated with metastasis and poor survival in pancreatic cancer.](#)

Fong D, Spizzo G, Mitterer M, Seeber A, Steurer M, Gastl G, Brosch I, Moser P.

Annals of Surgical Oncology 2012 Dec; 19(13):4330.

Application: IHC-P, Human, Human pancreatic cancer

- [JAM-A expression positively correlates with poor prognosis in breast cancer patients.](#)

McSherry EA, McGee SF, Jirstrom K, Doyle EM, Brennan DJ, Landberg G, Dervan PA, Hopkins AM, Gallagher WM.

International Journal of Cancer 2009 Sep; 125(6):1343.

Application: IHC-P, Human, Breast cancer

- [Downregulation of junctional adhesion molecule-A is involved in the progression of clear cell renal cell carcinoma.](#)

Gutwein P, Schramme A, Voss B, Abdel-Bakky MS, Doberstein K, Ludwig A, Altevogt P, Hansmann ML, Moch H, Kristiansen G, Pfeilschifter J.

Biochemical and Biophysical Research Communications 2009 Mar; 380(2):387.

Application: WB, IHC, IF

Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Leukocyte transendothelial migration](#)
- [Tight junction](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Hypertension](#)
- [Obesity](#)