

Mouse anti-Human EphA2 Monoclonal Antibody | anti-EphA2 antibody

EphA2 (Extracellular region) M060 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA71622	Mouse	Human	Immunocytochemistry, ELISA, Western Blot

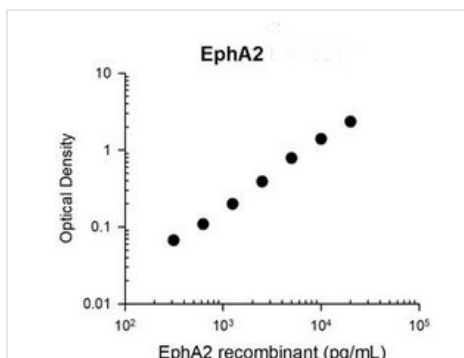
PRODUCT SYNONYMS

EphA2; Monoclonal Antibody; EphA2 (Extracellular region) M060 Antibody; EphA2 M060; anti-EphA2 antibody

PRODUCT SPECIFICATIONS

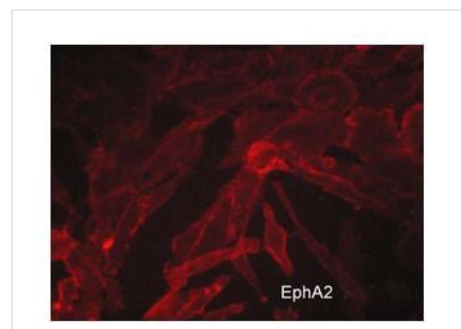
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1
Clone Number	M060
Specificity	Clone M060 mouse monoclonal antibody detects a 125kDa* protein on SDS-PAGE "Native" immunoblots of human NCI-H2052 and MDA-MB-231 carcinomas, as well as the EphA2 C-terminal 60kDa fragement in human A431 and A549. The antibody detects native EphA2, as well as aldehyde-fixed EphA2. The antibody works for Native western blot, ELISA capture, and immunocytochemistry.
Purity/Purification	Protein G chromatography
Form/Format	Mouse monoclonal antibody purified with protein G chromatography is supplied in 100ul phosphate-buffered saline, 50% glycerol, 1mg/ml BSA, and 0.05% sodium azide.
Applicable Applications for anti-EphA2 antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot)
Immunogen	Clone (M060) was generated from a recombinant protein that included the extracellular region of human EphA2 protein.
Preparation and Storage	Store at -20 degree C. Stable for 1 year.

IMAGES



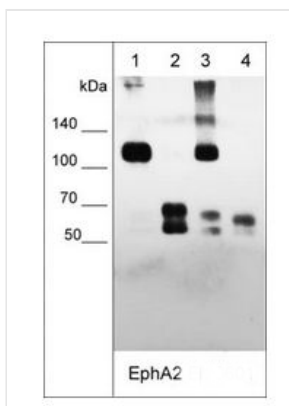
Standard Curve (Sample)

Representative Standard Curve using mouse monoclonal anti-EphA2 (EM0601) for ELISA capture of human recombinant EphA2 extracellular region with a His-tag. Captured protein was detected by suitable anti-His-tag antibody followed by appropriate secondary antibody HRP conjugate.



ICC (Immunocytochemistry)

Immunocytochemical labeling of EphA2 in aldehyde fixed human MDA-MB-231 breast carcinoma cells. The cells were labeled with mouse monoclonal anti-EphA2 (EM0601). The antibody was detected using goat anti-mouse DyLight 594.



WB (Western Blot)

Western blot of human MDA-MB-231 breast carcinoma (lane 1), A431 epidermoid carcinoma (lane 2), NCI-H2052 epithelioid mesothelioma (lane 3), and A549 lung carcinoma (lane 4). The blot was probed with mouse monoclonal anti-EphA2 (EM0601) at 1:500.

ADDITIONAL INFORMATION

Related Product Information for anti-EphA2 antibody	The Ephfamily of receptor tyrosine kinases and their Ephrin ligands are important for cell positioning and morphogenesis during development. Ephreceptors are classified into 10 EphA and 6 EphB receptors, which preferentially bind to the type A and type B ephrins, respectively. Ephrin type-A receptor 2 (EphA2), also known as epithelial cell kinase (Eck), binds the ephrin A1 (EFNA1) ligand, and has roles in neuronal development and repair, as well as carcinogenesis. EphA2 receptor has an N-terminal ligand-binding domain followed by a cysteine-rich domain with an epidermal growth factor-like motif and two fibronectin type-III repeats in the extracellular region, and a sterile alpha motif (SAM), and a PDZ domain-binding motif in the intracellular region. EphA2 is expressed in many types of cancers, including breast, colon, bladder, gastric, and glioblastoma. In bladder cancers, EphA2 may be activated by progranulin leading to phosphorylation at Ser-897 and bladder tumorigenesis. EphA2 may be an important therapeutic target and biomarker for several types of cancer.
References	Neill, T. et al. (2016) J Cell Biol. 215(5):687. Zhou, Y. & Sakurai, H. (2017) Biol Pharm Bull. 40(10):1616.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32967311
NCBI GeneID	1969
NCBI Accession #	NP_004422.2
NCBI GenBank Nucleotide #	NM_004431.3
UniProt Accession #	P29317; Q8N3Z2
Molecular Weight	108,266 Da
NCBI Official Full Name	ephrin type-A receptor 2
NCBI Official Synonym Full Names	EPH receptor A2
NCBI Official Symbol	EPHA2
NCBI Official Synonym Symbols	ECK; CTPA; ARCC2; CTPP1; CTRCT6
NCBI Protein Information	ephrin type-A receptor 2; soluble EPHA2 variant 1; tyrosine-protein kinase receptor ECK; epithelial cell receptor protein tyrosine kinase
UniProt Protein Name	Ephrin type-A receptor 2
UniProt Gene Name	EPHA2
UniProt Synonym Gene Names	ECK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/epha2-antibody-clone-m060-immunocytochemistry-western-blot-elisa/71622>