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530-758-4400

PRODUCT DATASHEET

Anti-EphA2 (Extracellular region) M049 Antibody

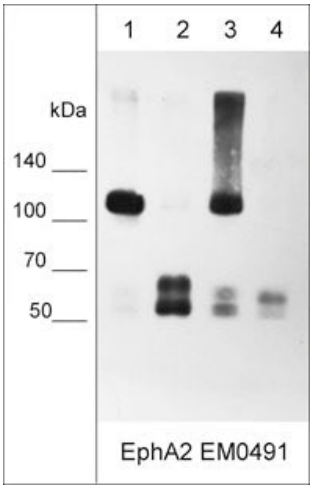
phosphosolutions ANTIBODIES THAT WORK

Product Details

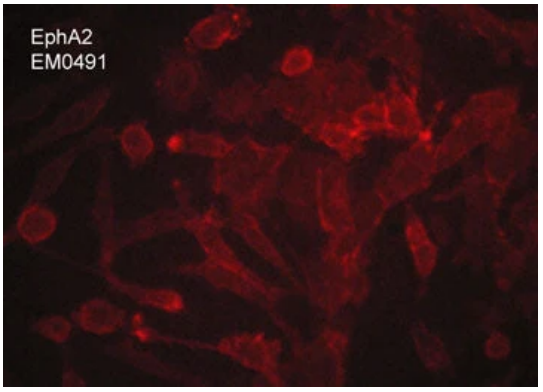
Available Variants	100 µL (SKU:EM0491)
Conjugate	Unconjugated
Isotype	IgG1
Clone	M049
Gene Name	EPHA2
Host Species	Mouse
Format	Protein G Purified
Physical State	Liquid
Buffer	PBS + 1 mg/ml BSA, 0.05% NaN3 and 50% glycerol
Applications	ELISA, ICC, IP, WB
Dilution Ranges	WB: 1:1000 ICC: 1:100 IP: 1:100
Species Reactivity	Human
Immunogen	Clone (M049) was generated from a recombinant protein that included the extracellular region of human EphA2 protein.
Specificity	Clone M049 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 60 kDa fragment in human A431 and A549. The antibody detects native EphA2, as well as aldehyde-fixed EphA2. The antibody works for Native western blot, immunoprecipitation, immunocytochemistry, and ELISA capture.
Molecular Weight	125
Quality Control	Western blots performed on each lot.

Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
UniProt ID	P29317 UniProt Summary: Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A family ligands residing on adjacent cells, leading to contact-dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of the receptor is referred to as forward signaling while the signaling pathway downstream of the ephrin ligand is referred to as reverse signaling. Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion, proliferation and differentiation of cells. Regulates cell adhesion and differentiation through DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 (MAPK3/MAPK1, respectively) signaling pathway. May also participate in UV radiation-induced apoptosis and have a ligand-independent stimulatory effect on chemotactic cell migration. During development, may function in distinctive aspects of pattern formation and subsequently in development of several fetal tissues. Involved for instance in angiogenesis, in early hindbrain development and epithelial proliferation and branching morphogenesis during mammary gland development. Engaged by the ligand ephrin-A5/EFNA5 may regulate lens fiber cells shape and interactions and be important for lens transparency development and maintenance. With ephrin-A2/EFNA2 may play a role in bone remodeling through regulation of osteoclastogenesis and osteoblastogenesis.
Country of Origin	United States
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
NCBI Gene ID	1969

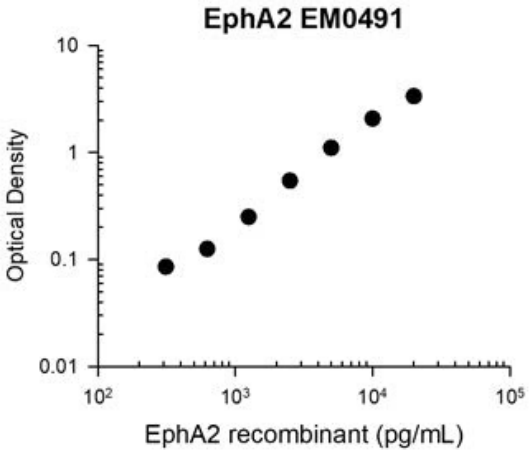
Product Images



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 (EM0491) at 1:1000.



Immunocytochemical labeling of EphA2 in aldehyde fixed human MDA-MB-231 breast carcinoma cells. The cells were labeled with mouse monoclonal anti-EphA2 (EM0491). The antibody was detected using goat anti-mouse DyLight® 594.



Representative Standard Curve using mouse monoclonal anti-EphA2 (EM0491) 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.



Created on 20. November 2026 | All information without guarantee