

Product datasheet for **DM1226**

Eph receptor A2 (EPHA2) Mouse Monoclonal Antibody [Clone ID: GM5H5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	GM5H5
Applications:	ELISA, FC, IF, WB
Recommended Dilution:	Cell based ELISA with intact, transiently transfected cells: 1/200-1/400. Flow cytometry: 1.2 µg/10e6 cells. Immunofluorescence: 1 µg/10e6 cells. ELISA (detection): With clone LA-4E7-D2 as capture antibody.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Genetic immunisation with cDNA encoding Human EphA2
Specificity:	Recognizes EphA2 receptor tyrosine kinase (EphA2).
Formulation:	Phosphate buffered saline, pH 7.2 State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	Homo sapiens EPH receptor A2 (EPHA2)
Database Link:	Entrez Gene 1969 Human P29317



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Background: EphA2 (Eph receptor tyrosine kinase A2) belongs to the Eph tyrosine receptor family, the largest receptor tyrosine kinase family of transmembrane proteins. It encodes a 130 kDa transmembrane protein which is primarily found in adult human epithelial cells (1). Eph receptors and their ephrin ligands are important mediators of cell-cell communication and play roles in embryonic patterning, neuronal targeting, and vascular development during normal embryogenesis (2,3). The Eph family of receptor tyrosine kinases is frequently overexpressed in a wide variety of cancers and tumor cell lines. In particular, EphA2 is overexpressed in prostate, lung and colon cancers and 40% of breast cancers and it represent an attractive potential target for drug design (3,4).

Synonyms: Ephrin type-A receptor 2, Epithelial cell kinase, Eph receptor A2

Note: **SDS-PAGE analysis:** The antibody was purified by protein G affinity chromatography from cell culture supernatants and verified by SDS-Page (Figure.3).

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Axon guidance

Product images:

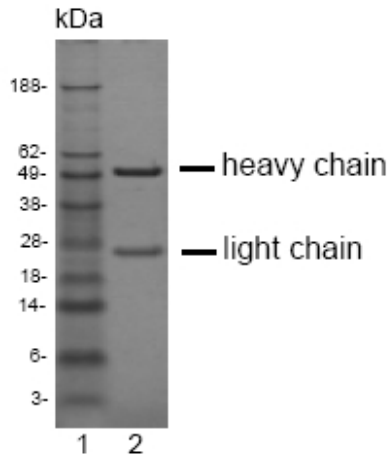
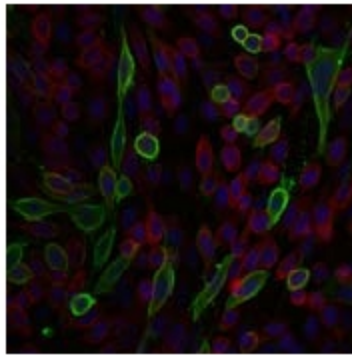
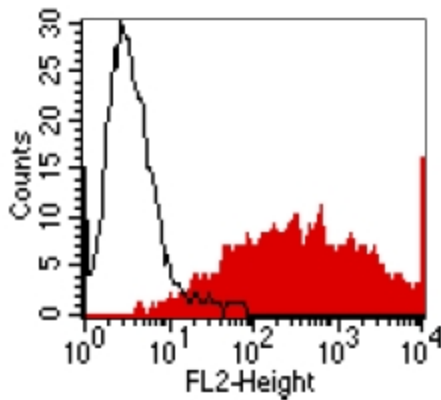


Figure.3: SDS-PAGE analysis of purified EphA2 monoclonal antibody. Lane 1: Molecular weight marker, Lane 2: 2 ug of purified EphA2 antibody. Proteins were separated by SDS-PAGE and stained with RAPID Stain™ Reagent.



— anti-EphA2 (K α -5H5)
 — Actin filaments
 — Nuclei

Figure.2: Spectral Confocal Microscopy of CHO cells using EphA2 antibody. CHO cells were transiently transfected with an expression vector encoding EphA2. Binding of EphA2 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red). Cell nuclei are stained with DAPI (blue).



— EphA2 transfectant
 — control transfectant

Figure.1 : FACS analysis of BOSC23 cells using EphA2 antibody. BOSC23 cells were transiently transfected with an expression vector encoding either EphA2 (Red curve) or an irrelevant protein (control transfectant). Binding of EphA2 was detected with a PE-conjugated secondary antibody. A positive signal was obtained only with EphA2 transfected cells.