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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 intakt, 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:	EPH receptor A2
Database Link:	Entrez Gene 1969 Human P29317

Background: EphA2 (Eph receptor tyrosine kinase A2) belongs to the Eph tyrosine receptor familiy, 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:

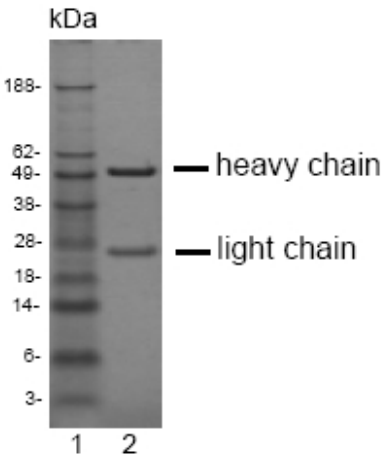

Figure.3: SDS-PAGE analysis of purified EphA2 monoclonal antibody. Lane 1: Molecular weight marker, Lane 2: 2 ug of purified EphA2 antibody. Proteins were separated by SDS-PAGE and stained with RAPID StainTM Reagent.

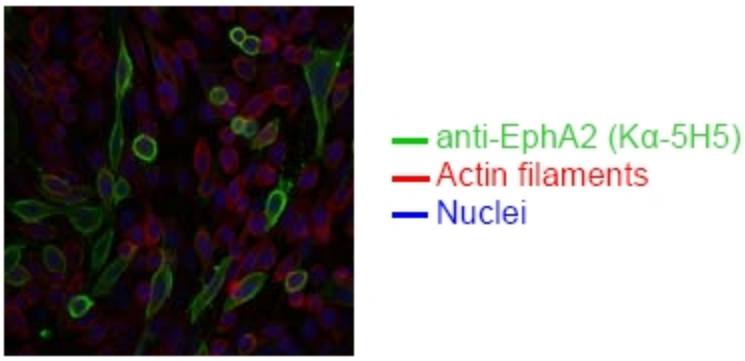

Figure.2: Spectral Confocal Microscopy of CHO cells using EphA2 antibody. CHO cells were transiently transfected with an expression vector encoding EphA2. Binding of EphA2 was visualized with a FITC-conjugated secondary antibody (green). Actin filaments are labeled with Alexa Fluor-555 Phalloidin (red).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

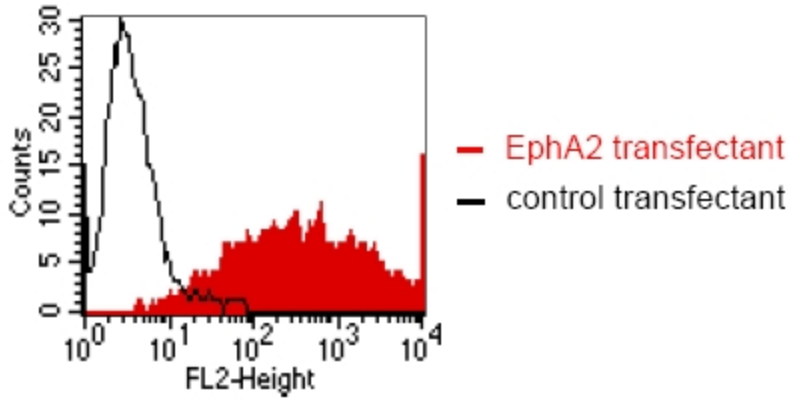

Figure.1 : FACS analysis of BOSC23 cells using EphA2 antibody. BOSC23 cells were transiently trans-fected with an expression vector encoding either EphA2 (Red curve) or an irrelevant protein (control transfectant). Binding of EphA2 was detected with a PE-conjugated secondary antibody. A positive signal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