RecomAb™ HuAb

EPHA2 humanized monoclonal antibody, clone 1C1

Catalog # RAB00035 Size 200 ug

Specification

Product Description	Humanized recombinant monoclonal antibody raised against human EPHA2.
Antibody Species	Human
Immunogen	Original antibody is raised against recombinant protein corresponding to residues within 183-510 of human EPHA2.
Reactivity	Human
Specificity	1C1 binds specifically to the amino-termianal LBD (ligand-binding domain) region of the EphA2 ecto domain (IgG1 KD ~0.8 nM; Fab KD ~140 nM) and not to other related human Eph receptors such as EphA1, EphA2, and EphA4, or any EphB receptor family members.
Form	Liquid
Preparation Method	1C1 was isolated after screening of a non-immunized human Fab phage library. Selection was base d on the ability to bind soluble human recombinant EphA2 (residues 183-510). The Fab was subseq uently converted to full length human IgG1.
Purification	Protein A affinity purification
Isotype	Human IgG1, kappa
Recommend Usage	ELISA (0.1 ug/mL) Flow Cytometry (1 ug/mL) Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (0.02% Proclin 300)
Storage Instruction	Store at 4°C for up to 3 months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay
- Flow Cytometry

Gene Info — EPHA2

Entrez GeneID	1969
Protein Accession#	P29317
Gene Name	EPHA2
Gene Alias	ECK
Gene Description	EPH receptor A2
Omim ID	176946
Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in th e nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an e xtracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin rece ptors are divided into 2 groups based on the similarity of their extracellular domain sequences an d their affinities for binding ephrin-A and ephrin-B ligands. This gene encodes a protein that binds ephrin-A ligands. [provided by RefSeq
Other Designations	ephrin receptor EphA2|epithelial cell receptor protein tyrosine kinase|protein tyrosine kinase|rece ptor protein tyrosine kinase regulated by p53 and E2F-1|soluble EPHA2 variant 1

Pathway

- Axon guidance

Disease

- Cataract
- Genetic Predisposition to Disease

- Hearing Loss