Product Datasheet

EphA2 Antibody (1C1) - Chimeric - Azide and BSA Free
NBP2-52677-0.2mg

Unit Size: 0.2 mg

Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.

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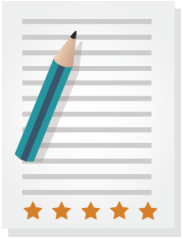


NBP2-52677-0.2mg

EphA2 Antibody (1C1) - Chimeric - Azide and BSA Free

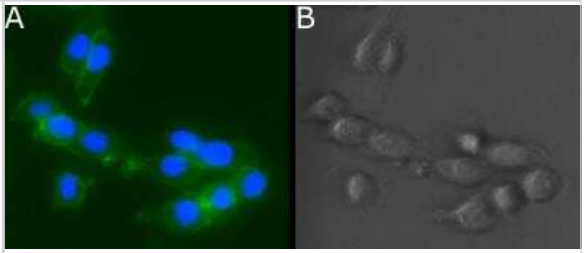
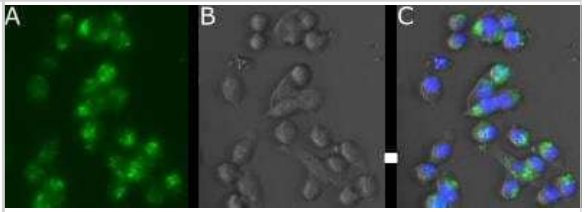
Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C for up to 3 months. For longer storage, aliquot and store at -20C.
Clonality	Monoclonal
Clone	1C1
Preservative	0.02% Proclin 300
Isotype	IgG Kappa
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Recombinant monoclonal antibody to Human Ephrin Type A receptor 2. Manufactured using AbAb's Recombinant Platform with variable regions (i.e. specificity) from the phage display antibody 1C1. 1C1 was isolated after screening of a non-immunized human Fab phage library. Selection was based on the ability to bind soluble human recombinant EphA2 (residues 183-510). The Fab was subsequently converted to full length human IgG1. This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques.
Host	Rabbit
Gene ID	1969
Gene Symbol	EPHA2
Species	Human
Specificity/Sensitivity	1C1 binds specifically to the amino-termianal LBD (ligand-binding domain) region of the EphA2 ectodomain (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.
Immunogen	1C1 was isolated after screening of a non-immunized human Fab phage library. Selection was based on the ability to bind soluble human recombinant EphA2 (residues 183-510). The Fab was subsequently converted to full length human IgG1.

Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Agonist Activity, CyTOF-ready
Recommended Dilutions	Western Blot 1:100 - 1:2000, Flow Cytometry 1:10 - 1:1000, ELISA 1:100 - 1:2000, Immunocytochemistry/ Immunofluorescence, Agonist Activity, CyTOF-ready

Application Notes	This antibody is Cytof ready. This chimeric rabbit antibody was made using the variable domain sequences of the original Human IgG1 format, for improved compatibility with existing reagents, assays and techniques. This antibody binds to human EphA2 receptor, a receptor tyrosine kinase that binds to membrane-bound ephrin-A ligands residing on adjacent cells, triggering contact-dependent signaling into neighboring cells. Eph2A is involved in pattern formation during development, angiogenesis and osteoblastogenesis. Eph2A has also been found to be expressed in a variety of cancers. This antibody acts as an agonist of Eph2A signaling. The agonist properties of 1C1 is due to ligand mimicry by VDR3. After cell binding, the antibody is able to induce rapid tyrosine phosphorylation, internalization, and degradation of the EphA2 receptor.

Images

Immunocytochemistry/Immunofluorescence: EphA2 Antibody (1C1) [NBP2-52677] - Fixed murine Lewis Lung cells were stained with the chimeric mouse IgG1 version of 1C1 and a donkey anti-mouse IgG-AF488 for 90 mins. Nuclei stained with Hoechst. Panel A shows a merge of the fluorescence channels, whilst panel B shows the DIC image. In this fixed sample the cell membrane is clearly outlined.	
Immunocytochemistry/Immunofluorescence: EphA2 Antibody (1C1) [NBP2-52677] - Live murine Lewis Lung cells were stained with the chimeric mouse IgG1 version of 1C1 and a donkey anti-mouse IgG-AF488 for 90 mins. Nuclei stained with Hoechst. Panel A shows the AF488 signal, panel B the DIC image and panel C a merge of fluorescence (AF488 + Hoechst) with the DIC image. In this live sample, antibody internalisation is observed.	

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
DVE00	VEGF [HRP]
3035-A2-100	EphA2

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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