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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-EpHA3 [IIIA4] Standard Size Ab03854-1.1

Isotype and Format: Mouse IgG1, Kappa

Clone Number: IIIA4

Alternative Name(s) of Target: Ephrin type-A receptor 3; EPH-like kinase 4; EK4; hEK4; HEK; Human embryo kinase; Tyrosine-protein kinase TYRO4; Tyrosine-protein kinase receptor ETK1; Eph-like tyrosine kinase 1; III.A4

UniProt Accession Number of Target Protein: P29320

Published Application(s): in vivo, IP, SPR, therapeutic, WB, ELISA, FC, IF

Published Species Reactivity: Human, Mouse

Immunogen: The original antibody was prepared by intraperitoneal immunization of a BALB/c mouse with LK63 cells.

Specificity: The antibody binds to the native EphA3 globular ephrin-binding domain. The antibody targets a site closely adjacent to the heterotetramerization site on the N-terminal of EPHA3's extracellular domain adjacent to the ligand-binding site and has a high affinity for EPHA3.

Application Notes: This antibody was used for detection of hek expressed on LK63 cells by flow cytometry. Hek antigen was immunoprecipitated using the antibody from 125I-labeled LK63 cell lysates (Boyd et al., 1992; PMID: 1737782). The specificity of the chimeric version of the antibody was confirmed by ELISA analysis (US8664365). In a LK63 xenograft model, administration of the antibody inhibited the tumor growth, decreasing the spreading from the bone marrow to the spleen and other organs and increases the latency of the disease. Similar effects were observed in LK63 EPHA3 knock down xenografts. Further, antibody treatment of a xenograft model using EPHA3-transfected Reh, showed reduction in the bone marrow engraftment and increases the latency of the disease (Charmsaz et al., 2016; PMID: 27922598). The antibody bound to the native EphA3 globular ephrin-binding domain with subnanomolar affinity (KD ~ 0.5 nM) (Smith et al.; 2004; PMID: 14660665). The antibody specifically stained EphA3 in 95% of human tumor tissues from a broad range of cancer types (Vail et al. 2014; PMID: 25125683). The humanized version of the antibody (KB004), was tested in a multi-center Phase 1/2 trial, in patients with EphA3-positive hematologic neoplasms, including Chronic Myelogenous Leukemia, Acute Myeloid Leukemia, Acute lymphoblastic leukemia, Myelodysplastic Syndrome.

Antibody First Published in: Boyd et al. Isolation and characterization of a novel receptor-type protein tyrosine kinase (hek) from a human pre-B cell line. J Biol Chem. 1992 Feb 15;267(5):3262-7. [PMID:1737782](#)

Note on publication: The original paper describes the generation of six monoclonal antibodies specific for UL42 protein of PRV.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

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

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.