PerCP/Cy5.5 anti-human CD340 (erbB2/HER-2)

Catalog # / Size: 2222080 / 100 tests

2222075 / 25 tests

Clone: 24D2

Isotype: Mouse IgG1, κ

Immunogen: NIH-3T3 transfected with human HER-2

Reactivity: Human

Preparation: The antibody was purified by affinity

chromatography and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 and unconjugated

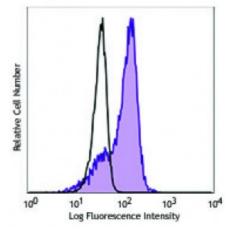
antibody.

Formulation: Phosphate-buffered solution, pH 7.2,

containing 0.09% sodium azide and

0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human breast cancer cell line (MCF-7) was stained with CD340 PerCP/Cy5.5 (clone 24D2) (filled histogram) or mouse IgG1, κ PerCP/Cy5.5 (open histogram).

Applications:

Applications: Flow Cytometry

Recommended

Usage:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

 * PerCP/Cy5.5 has a maximum absorption of 482 nm and a maximum emission of 690 nm.

Application References:

1. Bühring HJ, et al. 1995. Blood 86:1916.

Description: CD34

CD340 is also known as HER2/erbB2, tyrosine kinase cell surface receptor HER2, oncogene ERBB2, and oncogene NGL, neuroblastoma- or glioblastoma-derived. It is a member of the epidermal growth factor receptor family of cell membrane tyrosine kinases containing a single transmembrane domain and has an approximate molecular weight of 185 kD. CD340 contains three furin repeats and two cheY homologous receiver domains in the extracellular region (ECR). The HER2/erbB2 protein is expressed on many tumor cells, including some breast cancers, lung adenocarcinoma, gastric cancer, ovarian cancer, gliblastoma, some c-ALL blasts and bone marrow mesenchymal stem cells. Although the erbB2/HER2 protein contains no ligand binding domain, this protein interacts with other EGF receptor family members to form a heterodimer, stabilize ligand binding, and enhance kinase-mediated downstream signaling. CD340 has been shown to be involved in embryonic development and cancer progression; this protein is amplified in adenocarcinoma of the lung, some breast cancers, glioblastoma, gastric cancer, and ovarian carcinoma, where it functions as an oncogene. Overexpression of erbB2 in breast cancers has been shown to confer Taxol resistance and is a therapeutic target in a number of human cancers. The erbB2/HER-2 protein has been shown to interact with a large number of proteins,

including SHC1, EGF receptorm, neuroregulin 1, c-Src, integrin β 4, Grb2, Grb7, SOS1, caveolin 1, JAK2, PAK1, FAK, and β -catenin, among others. CD340 is extensively modified by tyrosine phosphoryation on multiple residues (Y1023, Y1139, Y1196, Y1221, Y1222, Y1248).

Antigen References:

- 1. Akiyama T, et al. 1986. Science 232:1644.
- 2. Bargmann CI, et al. 1986. Nature 319:226.
- 3. Pegram MD, et al. 1997. Oncogene 15:537.
- 4. Slamon DJ, et al. 1989. Science