

PE anti-CD340 (ErbB2/HER-2) Antibody

Catalog# / Size	639953 / 25 tests 639954 / 100 tests
Clone	W22266D
Regulatory Status	RUO
Other Names	Receptor tyrosine-protein kinase ErbB-2 (ERBB2), human epidermal growth factor receptor 2 (HER2), metastatic lymph node gene 19 protein (MLN19), Proto-oncogene Neu, p185(erbB2), cluster of differentiation 340 (CD340), NGL, herstatin
Isotype	Rat IgG2a, κ
Description	CD340, also commonly known as HER-2 or ErbB2, is a member of the epidermal growth factor receptor family of cell membrane tyrosine kinases containing a single transmembrane domain. CD340 contains three furin repeats and two CheY homologous receiver domains in the extracellular region. Although CD340 itself contains no ligand- binding domain, it 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 lung adenocarcinoma, some breast cancers, glioblastoma, gastric cancer, and ovarian carcinoma, where it functions as an oncogene. CD340 is a therapeutic target in several human cancers and it has been shown that overexpression in breast cancers confers Taxol resistance.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Rat
Immunogen	Recombinant fragment of the intracellular domain of human CD340 (ErbB2/HER-2)
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration and expiration, please enter the lot number in our Certificate of Analysis online tool.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis . For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Additional Product Notes	For use in intracellular flow cytometry (ICFC), it is recommended to fix/permeabilize with Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803). Fixation/permeabilization with True-Phos™ Perm Buffer (Cat. No. 425401) or True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401) is not recommended.
RRID	AB_3720621 (BioLegend Cat. No. 639953) AB_3720621 (BioLegend Cat. No. 639954)

Antigen Details

Structure	CD340 is a 1255 amino acid protein with a predicted molecular weight of 137.9 kD. It is a glycosylated receptor-like transmembrane protein; due to glycosylation, the observed molecular weight by Western Blot is closer to 175-185 kD.
Distribution	Cellular membrane and also present in internalized vesicles
Function	Receptor, transcriptional regulator
Interaction	Homodimerizes Heterodimerizes with EGFR, ErbB3, ErbB4, PIK3C2B, KPNB1, RANBP2, EEA1, CRM1, CLTC, MUC1, PTK6, RPA194, ACTB, PRKCABP, SRC, MYOC, CPNE3, SORL1, SH3BGRL
Ligand/Receptor	Heterodimerizes with other ERBB family members upon ligand binding, but does not directly bind ligand
Cell Type	Leukemia
Biology Area	Cell Biology, Immunology, Synaptic Biology
Molecular Family	Adhesion Molecules, CD Molecules
Antigen References	1. Akiyama T, <i>et al.</i> 1986. <i>Science</i>. 232:1644-6. 2. Bargmann CI, <i>et al.</i> 1986. <i>Nature</i>. 319:226-30. 3. Pegram MD, <i>et al.</i> 1997. <i>Oncogene</i>. 15:537-47. 4. Slamon DJ, <i>et al.</i> 1989. <i>Science</i>. 244:707-12. 5. Leone F, <i>et al.</i> 2003. <i>J Leukoc Biol</i>. 74:593-601.
Gene ID	2064

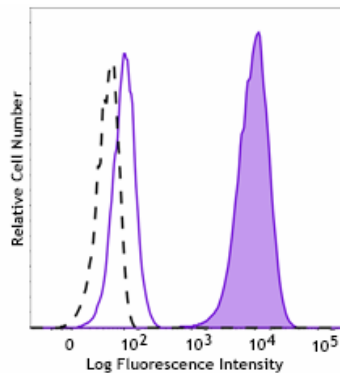
Related Protocols

- [Intracellular Flow Cytometry Staining Protocol](#)

Other Formats

Purified anti-CD340 (ErbB2/HER-2), Alexa Fluor® 647 anti-CD340 (ErbB2/HER-2), Alexa Fluor® 488 anti-CD340 (ErbB2/HER-2), PE anti-CD340 (ErbB2/HER-2)

Product Data



SK-BR-3 cells (positive cell line, filled histogram) and HeLa cells (negative cell line, open histogram) were fixed and permeabilized using Cyto-Fast™ Fix/Perm Buffer Set (Cat. No. 426803) and intracellularly stained with PE anti-CD340 (ErbB2/HER-2) (clone W22266D), or PE anti-Rat IgG2b, κ Isotype Control (open histogram, dashed line, representative of both the positive and negative cell lines) (clone RTK4530) (Cat. No. 400607).

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8999 BioLegend Way, San Diego, CA 92121 www.biolegend.com
Toll-Free Phone: 1-877-Bio-Legend (246-5343) Phone: (858) 768-5800 Fax: (877) 455-9587