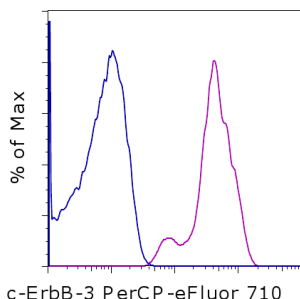


Anti-Human c-ErbB3/HER3 PerCP-eFluor® 710

Catalog Number: 46-6555

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of the MCF-7 cell line with Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (cat. 46-4714) (blue histogram) or Anti-Human c-ErbB3/HER3 PerCP-eFluor® 710 (purple histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human c-ErbB3/HER3 PerCP-eFluor® 710

Catalog Number: 46-6555

Clone: SGP1

Concentration: 5 µL (0.125 µg)/test

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Description

This SGP1 monoclonal antibody reacts with human c-ErbB3, which is also known as HER3. This epidermal growth factor (EGF) receptor family member is expressed on normal human tissues, particularly on neurons and cells of the gastrointestinal tract. c-ErbB3 is overexpressed in a variety of cancers, including breast, ovary, and gastrointestinal carcinomas. Upon binding its ligand heregulin beta-1, c-ErbB3 is activated by heterodimerization with ErbB2 or EGFR1. Dependent on PI3K signaling, c-ErbB3 mediates tumor cell invasion, intravasation, and metastasis. Expression of this cell surface receptor has been used as a prognostic marker for breast cancer.

The SGP1 antibody has been reported to stimulate anchorage-independent growth of breast cancer cell lines.

Applications Reported

This SGP1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This SGP1 antibody has been pre-titrated and tested by flow cytometric analysis of the MCF-7 cell line. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor® 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor® 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Our testing indicates that PerCP-eFluor® 710 conjugated antibodies are stable when stained samples are exposed to freshly prepared 2% formaldehyde overnight at 4°C, but please evaluate for alternative fixation protocols.

Click [here](#) or contact eBioscience Technical Support for more information on eFluor™ Organic Dyes including PerCP-eFluor® 710.

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References

Smirnova T, Zhou ZN, Flinn RJ, Wyckoff J, Boimel PJ, Pozzuto M, Coniglio SJ, Backer JM, Bresnick AR, Condeelis JS, Hynes NE, Segall JE. Phosphoinositide 3-kinase signaling is critical for ErbB3-driven breast cancer cell motility and metastasis. *Oncogene*. 2011 Jul 4. doi: 10.1038/onc.2011.275.

Bouyain S, Leahy DJ. Structure-based mutagenesis of the substrate-recognition domain of Nrdp1/FLRF identifies the binding site for the receptor tyrosine kinase ErbB3. *Protein Sci*. 2007 Apr;16(4):654-61. (**SGP-1**, WB)

Naidu R, Yadav M, Nair S, Kuty MK. Expression of c-erbB3 protein in primary breast carcinomas. *Br J Cancer*. 1998 Nov;78(10):1385-90.

Rajkumar T, Gullick WJ. A monoclonal antibody to the human c-erbB3 protein stimulates the anchorage-independent growth of breast cancer cell lines. *Br J Cancer*. 1994 Sep;70(3):459-65. (**SGP1**, FC, IP, ICC, FA)

Related Products

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)