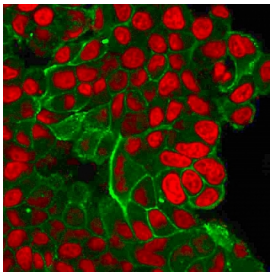
HER2 Antibody / ErbB2 [clone ERBB2/2452] (V3839)

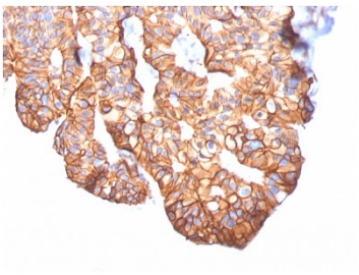
Catalog No.	Formulation	Size
V3839-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3839-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3839SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

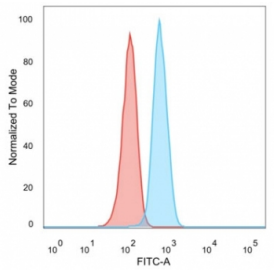
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	ERBB2/2452
Purity	Protein G affinity chromatography
UniProt	P04626
Localization	Cell membrane (This mAb binds to the extracellular/cell surface region of the protein)
Applications	Immunohistochemistry (FFPE): 1-2ug/ml for 30 min at RT Flow cytometry: 0.5-1ug/million cells Immunofluorescence: 0.5-1ug/ml
Limitations	This HER2 antibody is available for research use only.



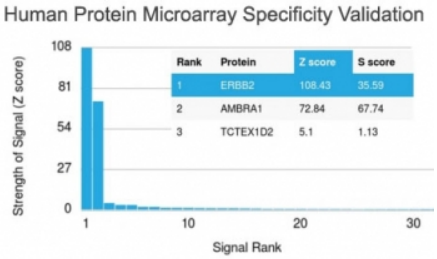
Immunofluorescent staining of PFA-fixed human MCF7 cells with HER2 antibody (clone ERBB2/2452, green) and Reddot nuclear stain (red).



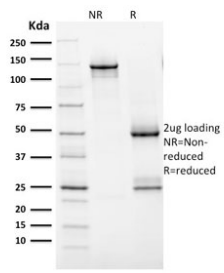
IHC testing of FFPE human breast carcinoma with HER2 antibody. HIER: boil tissue sections in pH6, 10mM citrate buffer, for 10-20 min followed by cooling at RT for 20 min.



Flow cytometry testing of PFA-fixed human MCF7 cells with HER2 antibody (clone ERBB2/2452); Red=isotype control, Blue= HER2 antibody.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using HER2 antibody (clone ERBB2/2452). These results demonstrate the foremost specificity of the ERBB2/2452 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free HER2 antibody (clone ERBB2/2452) as confirmation of integrity and purity.

Description

Recognizes a protein of 185kDa, which is identified as c-erbB-2/HER-2/neu. Its epitope is localized in the extracellular domain. C-erbB-2/HER-2 is a member of the EGFR family. This mAb is specific and shows minimal cross-reaction with other members of the EGFR-family. Receptors of this family are located on the plasma membrane and consist of an extracellular ligand-binding domain that is connected to a large intracellular domain by a single transmembrane sequence. c-erbB-2/HER-2 protein is over-expressed in a variety of carcinomas especially those of breast and ovary.

For broad detection of HER2 (ErbB2) as a receptor tyrosine kinase, see our HER2 antibody.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the HER2 antibody to be titered up or down for optimal performance.

Immunogen

A portion of amino acids 311-462 from the human protein was used as the immunogen for this HER2 antibody.

Storage

Store the HER2 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

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