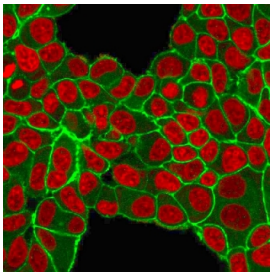
HER2 Antibody / ErbB2 [clone HRB2/451] (V2108)

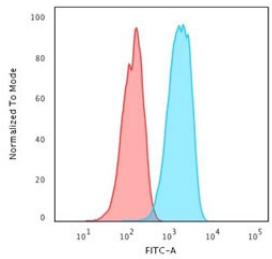
Catalog No.	Formulation	Size
V2108-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2108-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2108SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

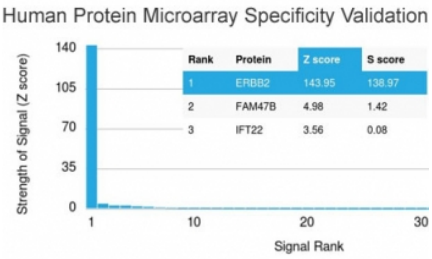
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	HRB2/451
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	2064
Localization	Cell surface
Applications	ELISA : order BSA/sodium azide-free format for coating Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-4ug/ml
Limitations	This **HER2 antibody** is available for research use only.



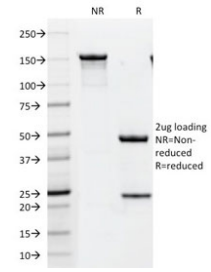
Immunofluorescent staining of PFA-fixed human MCF-7 cells with HER2 antibody (green) and Reddot nuclear stain (red).



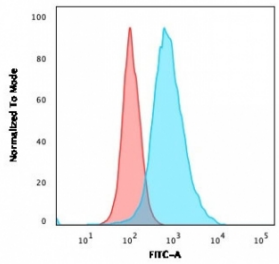
Flow cytometry testing of human MCF-7 cells with HER2 antibody at 1ug/million cells; Red=isotype control, Blue= HER2 antibody.



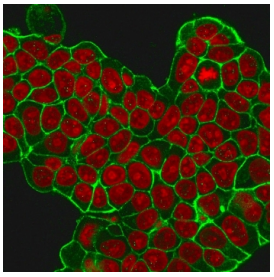
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using HER2 antibody (clone HRB2/451). These results demonstrate the foremost specificity of the HRB2/451 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with 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 HRB2/451) as confirmation of integrity and purity.



Flow cytometry testing of human SK-BR3 cells with HER2 antibody at 1ug/million cells; Red=isotype control, Blue= HER2 antibody.



Immunofluorescent staining of MeOH-fixed human MCF-7 cells with HER2 antibody (green) and Reddot nuclear stain (red).

Description

This mAb is specific to HER2 / ErbB2 and shows minimal cross-reaction with other members of the family. HER2 is a member 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. HER2 protein is over-expressed in a variety of carcinomas especially those of breast and ovary.

Application Notes

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

Immunogen

Recombinant 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).

Alternate Names

p185, CD340, Verb b2 Erythroblastic Leukemia Viral Oncogene Homolog 2, ErbB2 antibody, Neuro/Glioblastoma Derived Oncogene Homolog, HER2 antibody

References (3)