

Product Datasheet

HER2 Antibody / ErbB2 (orb2637694)

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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	ELISA, FACS, IF
Immunogen	Recombinant human protein was used as the immunogen for this HER2 antibody.
Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced) and 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
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.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
Isotype	Mouse IgG1, kappa
Clonality	Monoclonal
Clone Number	HRB2/451

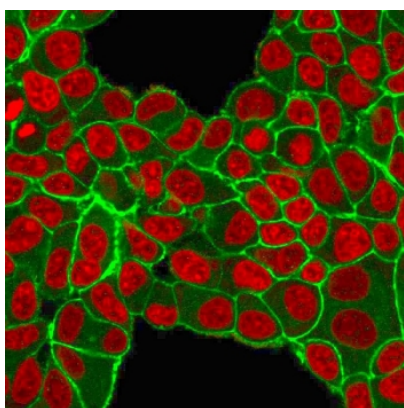
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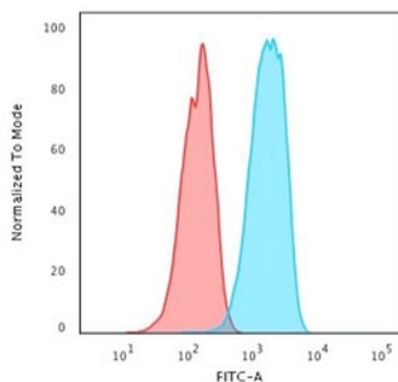
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Purity	Protein G affinity chromatography
Hazard Information	This HER2 antibody is available for research use only.
Entrez	2064
Dilution Range	ELISA (order BSA/sodium azide-free format for coating), Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-4ug/ml
Expiration Date	12 months from date of receipt.



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/10⁶ cells; Red = isotype control, Blue = HER2 antibody.

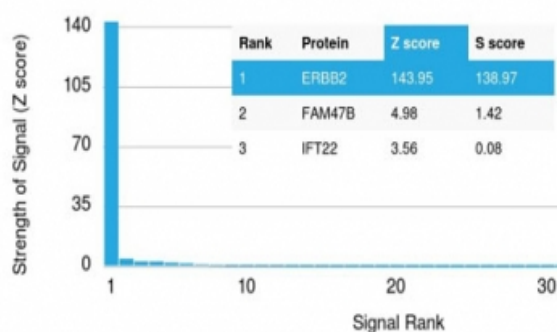
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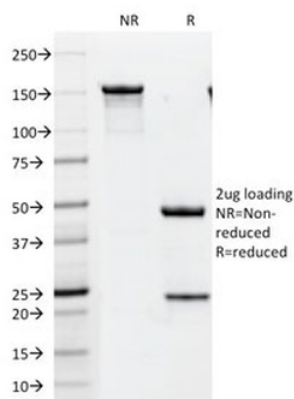
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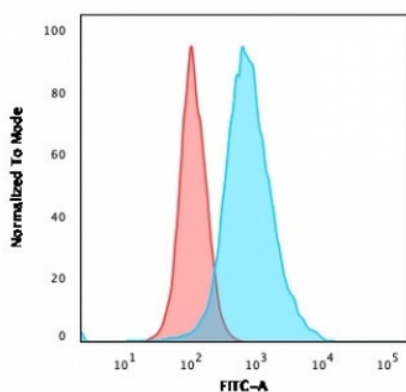
Human Protein Microarray Specificity Validation



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.



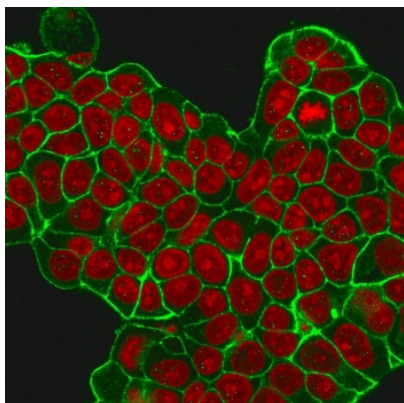
Flow cytometry testing of human SK-BR3 cells with HER2 antibody at 1µg/million cells; Red = isotype control, Blue = HER2 antibody.

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

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