Product Datasheet

HER2 Antibody / ErbB2 / Extracellular region (orb699700)

Catalog Number	orb699700
Category	Antibodies
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.
Clonality	Recombinant
Species/Host	Rabbit
Isotype	Rabbit IgG, kappa
Conjugation	Unconjugated
Reactivity	Human
Buffer/Preservatives	0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin and 0.05% sodium azide
Purification	Protein A affinity chromatography
Immunogen	A recombinant protein encoding the extracellular domain of human c-erbB2 was used as the immunogen for the HER2 antibody.
UniProt ID	P04626
Tested applications	FACS, IF, IHC-P

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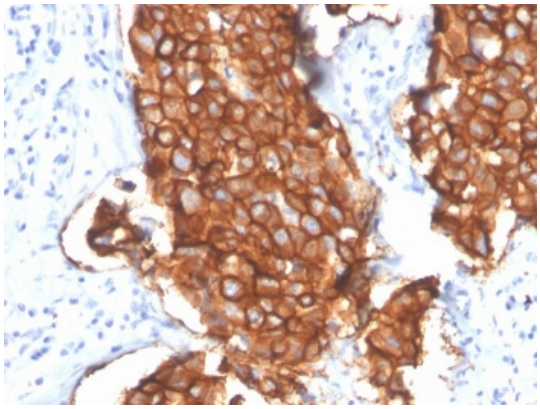
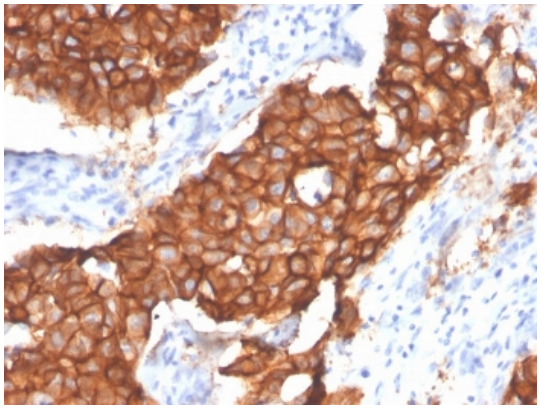
Dilution range	Flow cytometry: 1-2ug/million cells,Immunofluorescence: 1-2ug/ml,Immunohistochemistry (FFPE): 1-2ug/ml for 30 minutes at RT
Application notes	Optimal dilution of the HER2 antibody should be determined by the researcher.
Antibody Type	Primary Antibody
Clone Number	ERBB2/4439R
Storage	Maintain 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
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human breast carcinoma with HER2 antibody (clone ERBB2/4439). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



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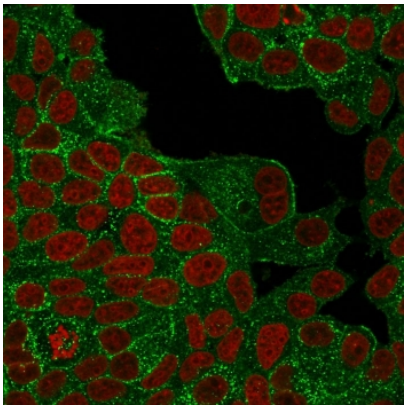
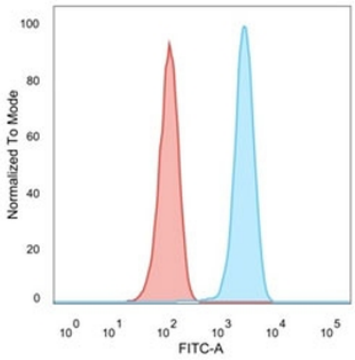
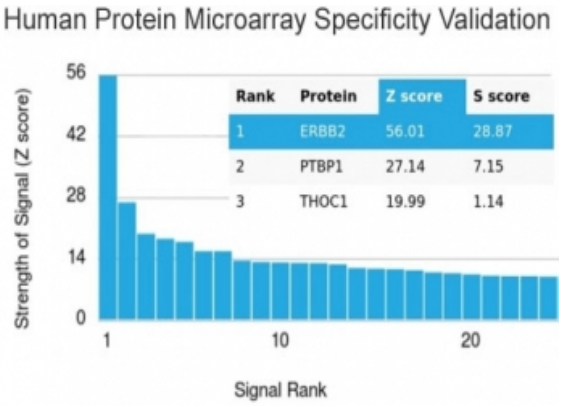


Immunofluorescent staining of PFA-fixed human MCF7 cells with HER2 antibody (clone ERBB2/4439, green) and Phalloidin (red).



Flow cytometry testing of PFA-fixed human MCF7 cells with HER2 antibody (clone ERBB2/4439); Red=isotype control, Blue= HER2 antibody.



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using HER2 antibody. These results demonstrate the foremost specificity of the ERBB2/4439 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.

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