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Anti-ERBB2 / HER2 / CD340 Reference Antibody (trastuzumab deruxtecan)

Recombinant Antibody
Catalog # APR10045

Product Information

Application	Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA
Primary Accession	P04626
Reactivity	Human
Clonality	ADC
Isotype	IgG1
Calculated MW	137910

Additional Information

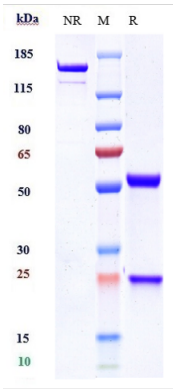
Target/Specificity	ERBB2 / HER2 / CD340
Endotoxin Conjugation	Dxd
Expression system	CHO
Format	Purified monoclonal antibody supplied in PBS, pH6.0, without preservative.This antibody is purified through a protein A column.

Protein Information

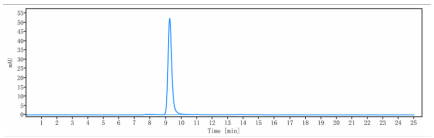
Name	ERBB2
Synonyms	HER2, MLN19, NEU, NGL
Function	Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.
Cellular Location	Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane; Single-pass type I membrane protein. Note=Internalized from the cell membrane in response to EGF stimulation. [Isoform 2]: Cytoplasm.

	Nucleus.
Tissue Location	Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

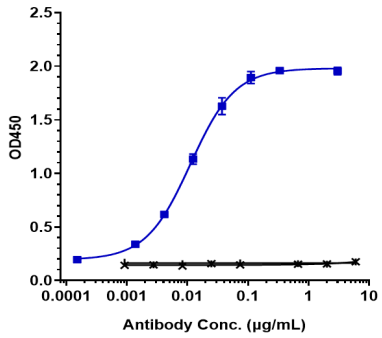
Images



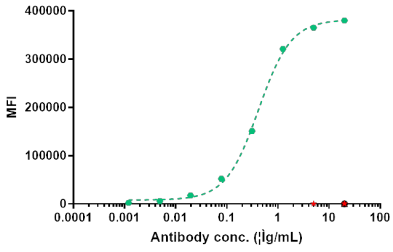
Anti-ERBB2 / HER2 / CD340 Reference Antibody (trastuzumab deruxtecan) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 90%.



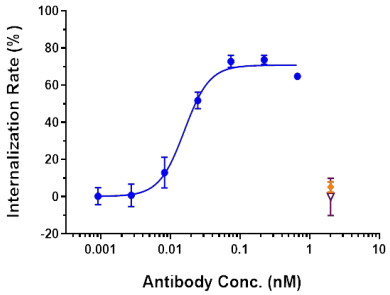
The purity of Anti-ERBB2 / HER2 / CD340 Reference Antibody (Trastuzumab deruxtecan) is 93.54%, determined by SEC-HPLC.



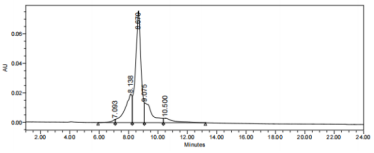
Immobilized human HER2(23 652) His at 2 ug/mL can bind Trastuzumab deruxtecan, EC50 is 0.01115 ug/mL.



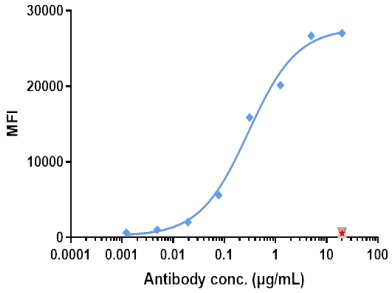
SKBR3 cells were stained with Anti-ERBB2 / HER2 / CD340 Reference Antibody (Trastuzumab deruxtecan) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC50 is 0.4164 ug/ml.



The endocytosis ratio Trastuzumab by SKBR3 increased with the increase of antibody concentration, and the Internalization Rate (%) reached 76% .



The drug-to-antibody ratio (DAR) of the Trastuzumab deruxtecan is 8.0.



Human HER2 HEK293 cells were stained with Anti-ERBB2 / HER2 / CD340 Reference Antibody (Trastuzumab deruxtecan) and negative control protein respectively, washed and then followed by PE and analyzed with FACS, EC50 is 0.30 ug/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.