

ErbB2 (HER-2) Monoclonal Antibody (e2-4001)

Product Details

Size	500 µL
Species Reactivity	Human, Mouse
Published Species	Rat, Hamster, Cat, Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	e2-4001
Conjugate	Unconjugated
Immunogen	Cytoplasmic domain of recombinant human c-erbB-2/HER-2 oncoprotein
Form	Liquid
Concentration	400 µg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10988194

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	32 Publications
Immunohistochemistry (IHC)	-	57 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:400	1 Publication
Immunocytochemistry (ICC/IF)	-	8 Publications
Flow Cytometry (Flow)	1 µg/test	-
ELISA (ELISA)	-	1 Publication
Immunoprecipitation (IP)	2 µg/mL	6 Publications
Dot blot (DB)	-	1 Publication
Gel Shift (GS)	-	1 Publication

Product Specific Information

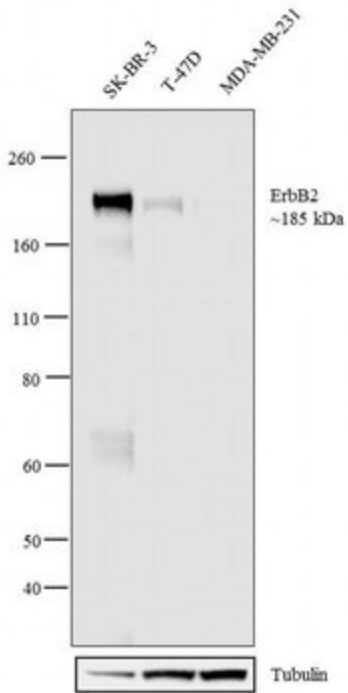
MA5-13105 targets HER-2 in IHC, ICC/IF, IP, FACS and WB applications and shows reactivity with human, mouse, and rat samples.

The MA5-13105 immunogen is cytoplasmic domain of recombinant human c-erbB-2/HER-2 oncoprotein.

Advanced Verification Data

ErbB2 (HER-2) Antibody (MA5-13105)

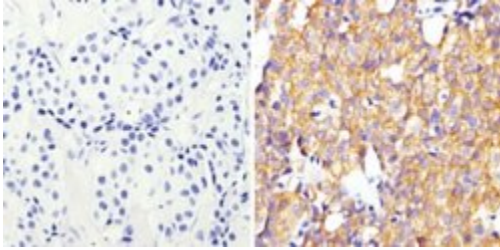
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. A higher level of expression of ErbB2 was observed in SK-BR-3 compared to T-47D and MDA-MB-231 using ErbB2 Monoclonal Antibody (Product # MA5-13105) in Western Blot. Relative expression validation info.



Product Images For ErbB2 (HER-2) Monoclonal Antibody (e2-4001)

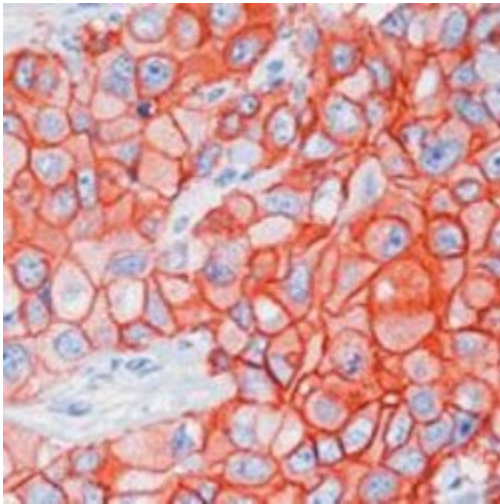
ErbB2 (HER-2) Antibody (MA5-13105) in IHC (P)

Immunohistochemistry analysis of HER-2 showing staining in the cytoplasm and membrane of paraffin-embedded human breast carcinoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H₂O₂-methanol for 15 min at room temperature, washed with ddH₂O and PBS, and then probed with a HER-2 monoclonal antibody (Product # MA5-13105) diluted in 3% BSA-PBS at a dilution of 1:20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



ErbB2 (HER-2) Antibody (MA5-13105) in IHC

Formalin-fixed, paraffin-embedded human breast carcinoma stained with c-erbB-2 antibody using peroxidase-conjugate and AEC chromogen. Note intense cell membrane staining of tumor cells.



[View more figures on thermofisher.com](https://www.thermofisher.com)

Western Blot (32)

Communications biology

The strategic combination of trastuzumab emtansine with oncolytic rhabdoviruses leads to therapeutic synergy.

"Published figure using ErbB2 (HER-2) monoclonal antibody (Product # MA5-13105) in Western Blot"

Authors: Arulanandam R, Taha Z, Garcia V, Selman M, Chen A, Varette O, Jirovec A, Sutherland K, Macdonald E, Tzelepis F, Birdi H, Alluqmani N, Landry A, Bergeron A, Vanderhyden B, Diallo JS

Species
Human
Not Applicable

Dilution
1:1000
Not Cited

Year
2020

Molecular & cellular proteomics : MCP

Interactome Mapping Uncovers a General Role for Numb in Protein Kinase Regulation.

"Published figure using ErbB2 (HER-2) monoclonal antibody (Product # MA5-13105) in Western Blot"

Authors: Wei R, Kaneko T, Liu X, Liu H, Li L, Voss C, Liu E, He N, Li SS

Species
Not Applicable

Dilution
Not Cited

Year
2018

[View more WB references on thermofisher.com](#)

Immunohistochemistry (57)

NPJ breast cancer

NF1 deficiency correlates with estrogen receptor signaling and diminished survival in breast cancer.

"Published figure using ErbB2 (HER-2) monoclonal antibody (Product # MA5-13105) in Immunohistochemistry"

Authors: Dischinger PS, Tovar EA, Essenburg CJ, Madaj ZB, Gardner EE, Callaghan ME, Turner AN, Challa AK, Kempston T, Eagleson B, Kesterson RA, Bronson RT, Bowman MJ, Graveel CR, Steensma MR

Species
Not Applicable

Dilution
Not Cited

Year
2020

Human pathology

Histologic variability in solitary fibrous tumors reflects angiogenic and growth factor signaling pathway alterations.

"MA5-13105 was used in immunohistochemistry to evaluate expression of receptor tyrosine kinases, their ligands, and mutational status and correlate with features observed in solitary fibrous tumors"

Authors: Demicco EG, Wani K, Fox PS, Bassett RL, Young ED, Lev D, Aldape KD, Lazar AJ, Wang WL

Species
Human

Dilution
1:200

Year
2015

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (1)

ICC/IF (8)

ELISA (1)

IP (6)

DB (1)

GS (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.