

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

Product Details	
Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Hamster, Cat, Mouse, Human
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	e2-4001
Conjugate	Biotin
Immunogen	Cytoplasmic domain of recombinant human c-erbB-2/HER-2 oncoprotein
Form	Liquid
Concentration	0.2 mg/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_10984470

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	1:200-400	51 Publications
Immunoprecipitation (IP)	2 µg/mL	6 Publications
Western Blot (WB)	1-2 µg/mL	23 Publications
ELISA (ELISA)	-	1 Publication
Gel Shift (GS)	-	1 Publication
Immunocytochemistry (ICC)	-	5 Publications

Product Specific Information

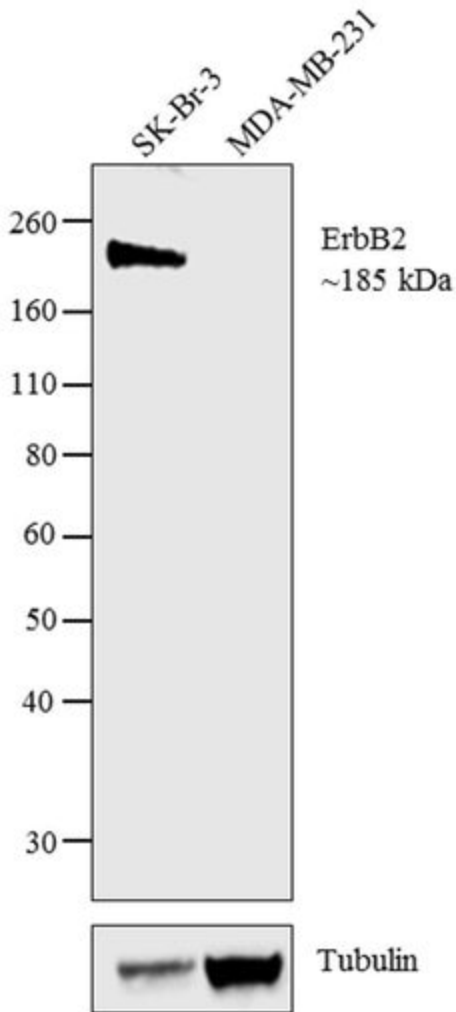
MA5-13102 targets HER-2 in IHC, IP, and WB applications and shows reactivity with Human, mouse, and Rat samples.

The MA5-13102 immunogen is cytoplasmic domain of recombinant human c-erbB-2/HER-2 oncoprotein.

Advanced Verification Data

ErbB2 (HER-2) Antibody (MA5-13102)

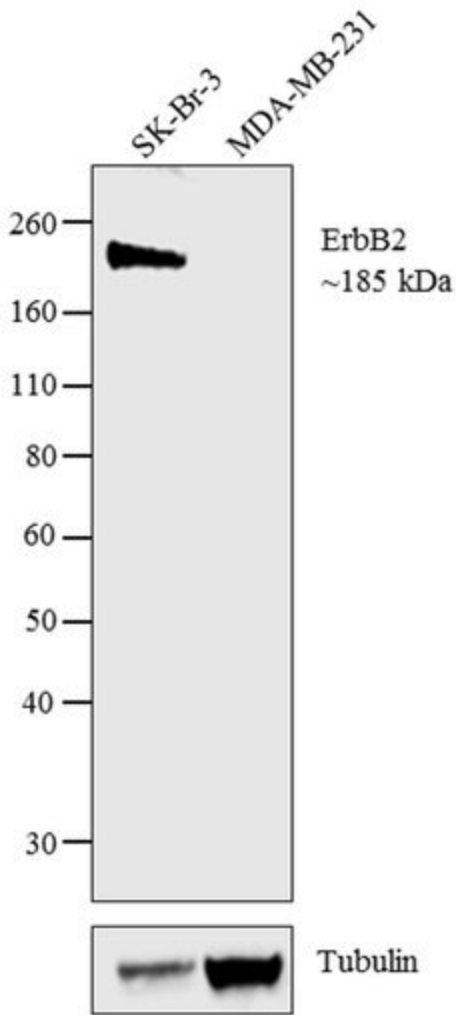
Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Relative expression of ErbB2 was observed in SK-BR-3 and MDA-MB-231 in Western Blot using ErbB2 Monoclonal Antibody (Product # MA5-13102). SK-BR-3 has been reported to over-express ErbB2, whereas MDA-MB-231 has been shown to be negative for ErbB2 expression (PMCID: PMC2914277). Relative expression validation info.



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

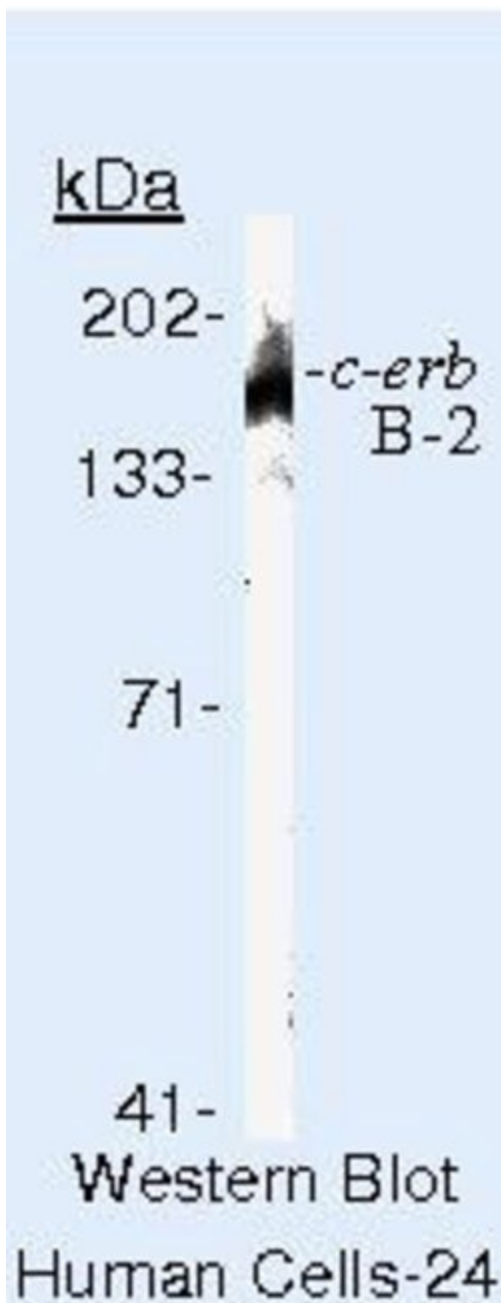
ErbB2 (HER-2) Antibody (MA5-13102) in WB

Western blot analysis was performed on membrane enriched extracts (30 µg lysate) of SK-BR-3 (1) and MDA-MB-231 (2). The blots were probed with Anti-ErbB2 Mouse Monoclonal Antibody (Product # MA5-13102, 1 µg/mL dilution) and detected by chemiluminescence using Streptavidin-HRP (Product # N200, 1:10,000 dilution). A 185 kDa band corresponding to ErbB2 was observed in SK-BR-3 but not in MDA-MB-231, which is a negative control for ErbB2. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane using the wet transfer system. The membrane was probed with the relevant primary antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



ErbB2 (HER-2) Antibody (MA5-13102) in WB

Western blot of HER-2 using HER-2 Monoclonal Antibody (Product # MA5-13102) on SKBR3 Cells.



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Western Blot (23)

Cell reports

Molecular Profiling and Functional Analysis of Macrophage-Derived Tumor Extracellular Vesicles.

"MA5-13102 was used in Western Blotting to develop methods for the analysis of extracellular vesicles secreted by macrophages in mouse tumors."

Authors: Cianciaruso C,Beltraminelli T,Duval F,Nassiri S,Hamelin R,Moze A,Gallart-Ayala H,Ceada Torres G,Torchia B,Ries CH,Ivanisevic J,De Palma M

Species
Mouse

Dilution
1:1000

Year
2019

Scientific reports

A cell-based screening system for influenza A viral RNA transcription /replication inhibitors.

"MA5-13102 was used in western blot to develop a cell-based screening system to identify compounds that inhibit influenza A viral RNA transcription/replication"

Authors: Ozawa M,Shimajima M,Goto H,Watanabe S,Hatta Y,Kiso M,Furuta Y,Horimoto T,Peters NR,Hoffmann FM,Kawaoka Y

Species
Human

Dilution
Not Cited

Year
2013

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

Immunoprecipitation (6)

Oncotarget

Molecular architecture of the ErbB2 extracellular domain homodimer.

"MA5-13102 was used in immunoprecipitation and western blot to elucidate the dimerization of ErbB2"

Authors: Hu S,Sun Y,Meng Y,Wang X,Yang W,Fu W,Guo H,Qian W,Hou S,Li B,Rao Z,Lou Z,Guo Y

Species
Human

Dilution
Not Cited

Year
2015

Molecular and cellular biology

erbB3 is an active tyrosine kinase capable of homo- and heterointeractions.

"MA5-13102 was used in immunoprecipitation to study the tyrosine kinase activity of erbB3 against a peptide substrate and its ability to participate in erbB2-erbB3 hetero-interactions and erbB3 homo-interactions"

Authors: Steinkamp MP,Low-Nam ST,Yang S,Lidke KA,Lidke DS,Wilson BS

Species
Human

Dilution
Not Cited

Year
2014

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

More applications with references on thermofisher.com

IHC (51)

ICC (5)

ELISA (1)

GS (1)

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