ErbB2 (HER-2) Recombinant Rabbit Monoclonal Antibody (40H87L57)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	40H87L57
Conjugate	Unconjugated
Immunogen	proprietary
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532333

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	-
Immunocytochemistry (ICC/IF)	1:100	-

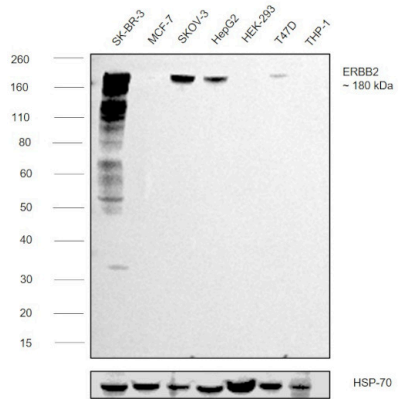
Product Specific Information

This antibody is predicted to react with canine, chicken, feline, mouse, rat, Rhesus monkey and Xenopus based on sequence homology.

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

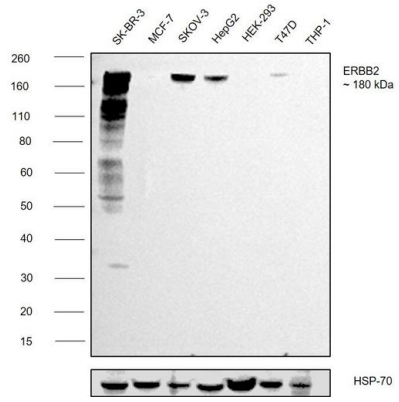
Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

Product Images For ErbB2 (HER-2) Recombinant Rabbit Monoclonal Antibody (40H87L57)



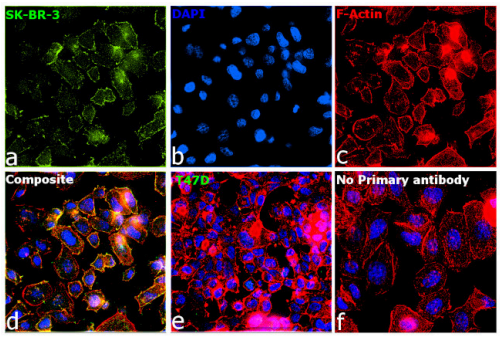
ErbB2 (HER-2) Antibody (700635)

Antibody specificity was demonstrated by detection of differential basal expression of the target across SK-BR-3, MCF-7, SKOV-3, HepG2 owing to their inherent genetic constitution. Relative expression of Receptor tyrosine-protein kinase erbB-2 was observed in ~180 using Anti-ErbB2 (HER-2) Recombinant Rabbit Monoclonal Antibody (40H87L57) (Product # 700635) in Western Blot. {IP-MS}



ErbB2 (HER-2) Antibody (700635) in WB

Western blot was performed using Anti-ErbB2 (HER-2) Recombinant Rabbit Monoclonal Antibody (40H87L57) (Product # 700635) and a ~180kDa band corresponding to Receptor tyrosine-protein kinase erbB-2 was observed across cell lines tested . Whole cell extracts (50 µg lysate) of SK-BR-3 (Lane 1), MCF7 (Lane 2), SK-O-V3 (Lane 3), Hep G2 (Lane 4), HEK-293 (Lane 5), T-47D (Lane 6), THP-1 (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (2 µg /mL) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036,1:20000 using the iBright™ FL1500 Imaging System (Product # A44115). Chemiluminescent detection was performed using SuperSignal™ West Pico PLUS Chemiluminescent Substrate (Product # 34580).Increased expression observed in SK-BR-3, SKOV-3 and HepG2 compared to other cell lines.



ErbB2 (HER-2) Antibody (700635) in ICC/IF

Immunofluorescence analysis of Receptor tyrosine-protein kinase erbB-2 was performed using 70% confluent log phase SK-BR-3 and T-47D cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with ErbB2 (HER-2) Recombinant Rabbit Monoclonal Antibody (40H87L57) (Product # 700635) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cell membrane, endosome localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

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