

# DDR2 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 628 and 855 of Human DDR2
Form	Liquid
Concentration	0.43 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2545228

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000-1:10,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:200	-

## Product Specific Information

Recommended positive controls: Raji, mouse brain.

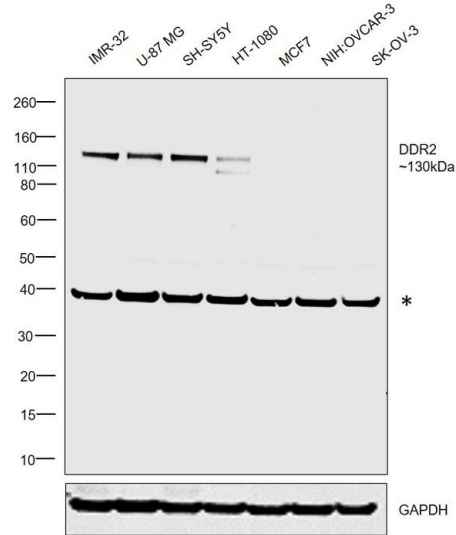
Predicted reactivity: Mouse (97%), Rat (97%), Bovine (98%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

Product Images For DDR2 Polyclonal Antibody

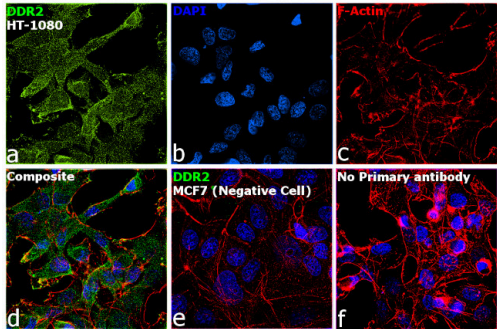
DDR2 Antibody (PA5-27752) in WB

Western blot was performed using Anti-DDR2 Polyclonal Antibody (Product # PA5-27752) and a 130kDa band corresponding to DDR2 was observed in IMR-32, U-87 MG, SH-SY5Y and HT-1080. No corresponding band of interest was observed in MCF7, NIH:OVCAR-3 and SKOV-3 which are known to be low expressing cell lines (DOI: 10.18632/oncotarget.8795). Whole cell extracts (30 µg lysate) of IMR-32 (Lane 1), U-87 MG (Lane 2), SH-SY5Y (Lane 3), HT-1080 (Lane 4), MCF7 (Lane 5), NIH:OVCAR-3 (Lane 6) and SK-O-V3 (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). 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 (1:5000 dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005). An uncharacterized band (\*) was also observed at ~40kDa.



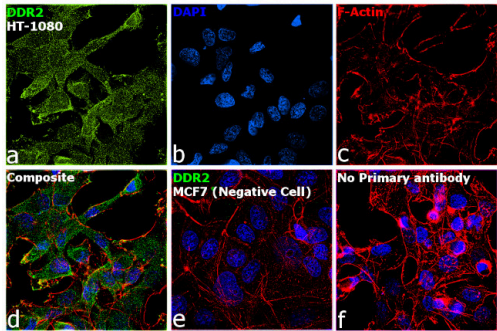
DDR2 Antibody (PA5-27752)

Antibody specificity was demonstrated by detection of differential basal expression of the target across cell models owing to their inherent genetic constitution. Immunofluorescence analysis using Anti-DDR2 Polyclonal Antibody (Product # PA5-27752), shows increased expression of DDR2 in HT-1080 as compared to MCF7 which is known to be a low expressing cell line (DOI: 10.18632/oncotarget.8795). {RE}



DDR2 Antibody (PA5-27752) in ICC/IF

Immunofluorescence analysis of DDR2 was performed using 70% confluent log phase HT-1080 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 DDR2 Polyclonal Antibody (Product # PA5-27752) at 1:200 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 dilution), 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 plasma membrane localization. Panel e represents MCF7 cells with lower expression of DDR2 (DOI: 10.18632/oncotarget.8795). Panel f represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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