

DDIT4 Polyclonal Antibody

Catalog NumberPA5-20495

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Tested Applications	Dilution *
Class	Polyclonal		
Type	Antibody		
Immunogen	a 12 amino acid peptide from near the center of human RTP801.	Immunohistochemistry (IHC)	5 µg/mL
Conjugate	Unconjugated	Western Blot (WB)	0.5-1 µg/mL
Form	Liquid	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Concentration	1 mg/mL		
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is human kidney tissue lysate. PA5-20495 can be used with blocking peptide PEP-0615.

Background/Target Information

DDIT4 gene ontology annotations related to this gene include cellular response to dexamethasone stimulus; intrinsic apoptotic signaling pathway in response to DNA damage by p53 class mediator; negative regulation of glycolytic process; negative regulation of TOR signaling; protein-containing complex disassembly; reactive oxygen species metabolic process; response to hypoxia.

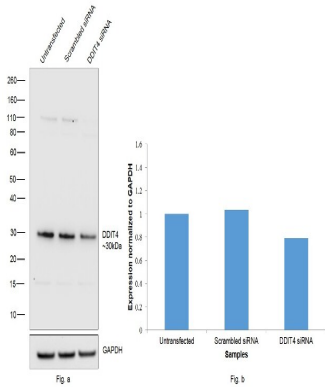
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Product Images For DDIT4 Polyclonal Antibody

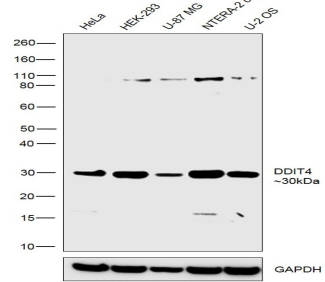


DDIT4 Antibody (PA5-20495)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with DDIT4 siRNA and reduction of signal was observed in Western Blot using DDIT4 Polyclonal Antibody (Product # PA5-20495). {KD}

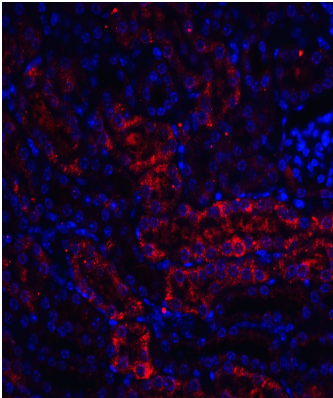
DDIT4 Antibody (PA5-20495) in WB

Western blot was performed using Anti-DDIT4 Rabbit Polyclonal Antibody (Product # PA5-20495) and a 30kDa band corresponding to DDIT4 was observed across cell lines tested. Whole cell extracts (30 µg lysate) of HeLa (Lane 1), HEK-293 (Lane 2), U-87 MG (Lane 3), NTERA-2 cl.D1 (Lane 4) and U-2 OS (Lane 5) were electrophoresed using Novex® NuPAGE® 12 % Bis-Tris gel (Product # NP0342BOX). Resolved proteins were then transferred onto a nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blots were probed with the primary antibody (0.5ug/ml) and detected by chemiluminescence Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (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).



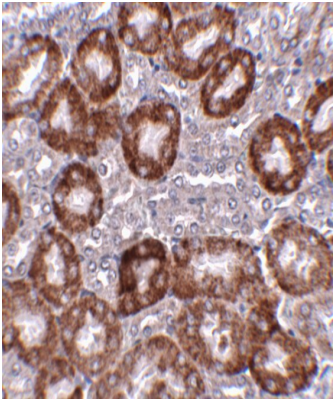
DDIT4 Antibody (PA5-20495) in IHC

Immunofluorescence of RTP801 in mouse kidney tissue with DDIT4 Polyclonal Antibody (Product # PA5-20495) at 20 µg/mL. Red: RTP801 Blue: DAPI staining



DDIT4 Antibody (PA5-20495) in IHC

Immunohistochemistry of RTP801 in mouse kidney tissue with DDIT4 Polyclonal Antibody (Product # PA5-20495) at 5 µg/mL.



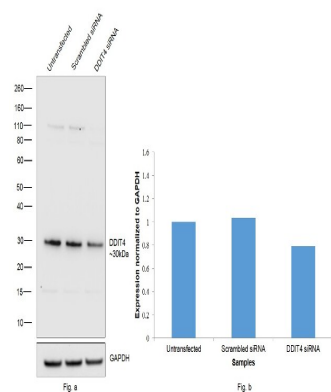
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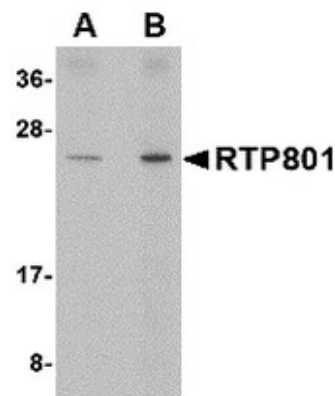
DDIT4 Antibody (PA5-20495) in WB

Knockdown of DDIT4 was achieved by transfecting HeLa cells with DDIT4 specific siRNAs (Silencer® select Product # s29167, s29168). Western blot analysis (Fig. a) was performed whole cell extracts from the HeLa knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with DDIT4 Polyclonal Antibody (Product # PA5-20495, 0.5ug/ml) and Goat Anti-Rabbit IgG Secondary Antibody, HRP conjugate (Product # A27036, 0.25 ug/ml, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to DDIT4.



DDIT4 Antibody (PA5-20495) in WB

Western Blot analysis of RTP801 in human kidney tissue lysate with DDIT4 Polyclonal Antibody (Product # PA5-20495) at (A) 0.5 and (B) 1 µg/mL.



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