

Product Datasheet

PRR14 Antibody - BSA Free NBP2-31812

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP2-31812

PRR14 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

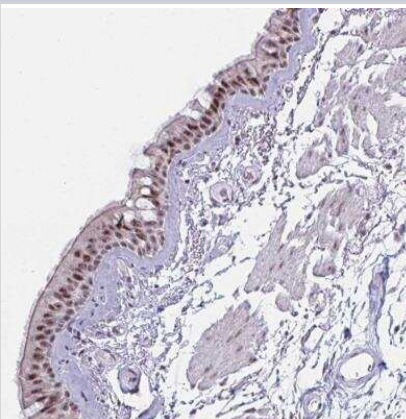
Product Description	
Description	Novus Biologicals Rabbit PRR14 Antibody - BSA Free (NBP2-31812) is a polyclonal antibody validated for use in IHC and WB. Anti-PRR14 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	78994
Gene Symbol	PRR14
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to amino acids: IHRTSSTLRRRSRTTPGPEEGPSQKVDRA PQPTLVVMLEDIASPRPPAEGFIDE TPNFIIPAQRAEPMRIVRQPTPPPGDLEPPFQPSALPADPLESPPTAPDP

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:1000 - 1:2500, Immunohistochemistry-Paraffin 1:1000 - 1:2500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

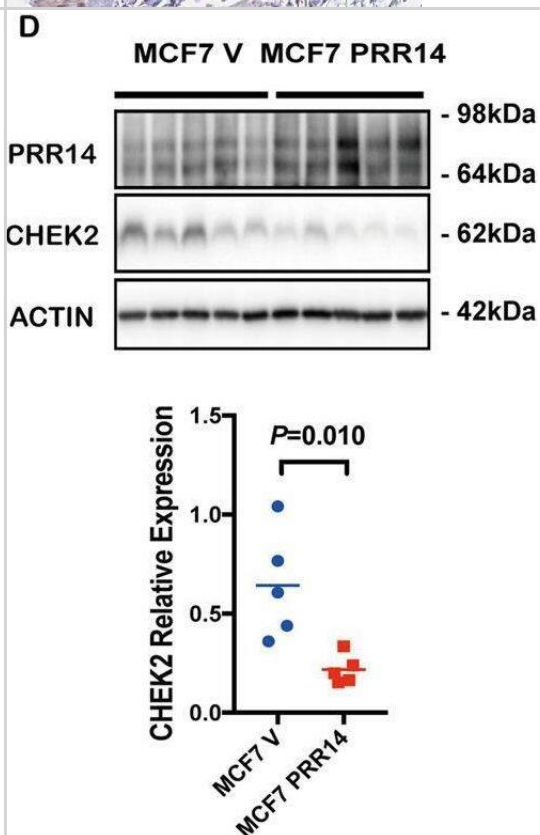


Images

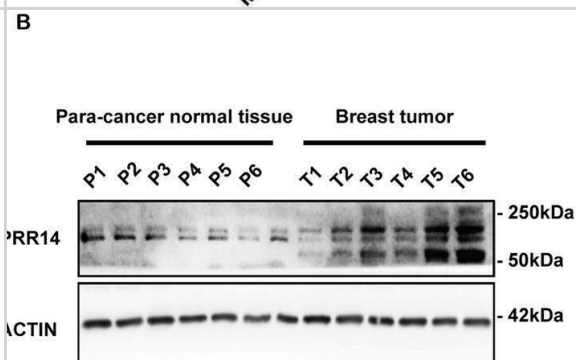
Immunohistochemistry-Paraffin: PRR14 Antibody [NBP2-31812] - Staining of human bronchus shows moderate nuclear, cytoplasmic and membranous positivity in respiratory epithelial cells.



PRR14 inhibits CHEK2. CHEK2 mRNA expression (a), CHEK2 protein expression (b) and p-CHEK2 (T68) protein expression (c) in PRR14 genetically unaltered and altered (amplified and mutated) breast cancer cases in TCGA database are statistically analyzed by two-tailed Student's t-test. CHEK2 protein expression is detected by immunostaining in xenografts in nude mice from established MCF7 cell lines and MDA-MB-231 cell lines (d), as well as human breast cancer (e). CHEK2 transcription in human breast cancer is also detected by qRT-PCR (f). The data are quantified and two-tailed Student's t-test is employed to determine the significance of the difference. Established MCF7 and MDA-MB-231 (g) PRR14-overexpressing and control cell lines are treated with various of genotoxic chemicals including Bleo, Eto, 5-FU, H₂O₂ and HU at indicated concentrations for indicated time. Key components of the ATM/CHEK2/P53 signaling pathway are detected by immunostaining. And CHEK2 protein expression (h) and mRNA expression (i) are detected by immunostaining and qRT-PCR, respectively. The data are analyzed by two-tailed Student's t-test. Established MCF7 and MDA-MB-231 (j) PRR14-overexpressing and control cell lines are treated with Eto at indicated concentration for indicated time to induce p-CHEK2 (T68), which is detected by immunostaining and quantified and normalized by CHEK2 total protein (k). The data are analyzed by two-tailed Student's t-test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32541902>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



The upregulated expression of PRR14 is confirmed in human breast samples. PRR14 mRNA (a) and protein (b) expression in breast cancer and para-carcinoma breast tissue are detected by qRT-PCR and immunostaining, respectively. The protein level is quantified (c). Both the transcription and expression are normalized by ACTB and statistically analyzed by paired two-tailed Student's t-test. Representative images of IHC staining for PRR14 with different staining intensity in a human breast cancer tissue microarray are presented (d). The data are presented as the percentage of samples with different PRR14 staining intensity (e, f). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/32541902>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Ren X, Long M, Li Z et al. Oncogene PRR14 promotes breast cancer through activation of PI3K signal pathway and inhibition of CHEK2 pathway Cell Death Dis 2020-06-15 [PMID: 32541902] (WB, IF/IHC, Human)



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Products Related to NBP2-31812

NBP2-31812PEP	PRR14 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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