

# Product Datasheet

## IRF6 Antibody NBP1-51911

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-51911****IRF6 Antibody**

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	0.5 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA

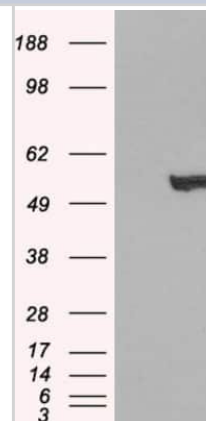
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Goat IRF6 Antibody (NBP1-51911) is a polyclonal antibody validated for use in IHC, WB, ELISA, IP and ChIP. Anti-IRF6 Antibody: Cited in 8 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Goat
<b>Gene ID</b>	3664
<b>Gene Symbol</b>	IRF6
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 25358290).
<b>Immunogen</b>	Peptide with sequence C-TPSMLQLPPALPPQ corresponding to C-Terminus according to NP_006138.1.

<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Peptide ELISA, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 0.2 - 0.6 ug/ml, Immunohistochemistry 2 - 3 ug/ml, Immunohistochemistry-Paraffin 2 - 3 ug/ml, Peptide ELISA Detection limit 1:32000, Chromatin Immunoprecipitation (ChIP)
<b>Application Notes</b>	WB: Approx. 60 kDa band observed in human ovary lysates (calculated MW of 53.1 kDa band according to NP_006138.1). In transfected HEK293 transiently expressing IRF6 a band of approx. 55 kDa is observed. This band is not observed in the non-transfected HEK293. IHC-P: Human kidney shows strong nuclear staining in DCT and glomerulus. Use in chromatin immunoprecipitation reported in scientific literature (PMID: 21807998).

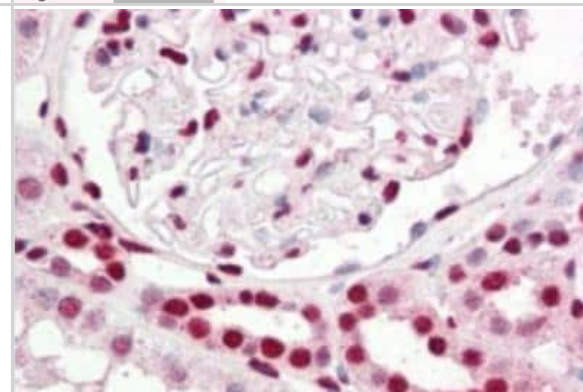


## Images

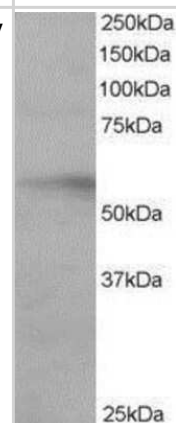
Western Blot: IRF6 Antibody [NBP1-51911] - HEK293 overexpressing IRF6 and probed with (mock transfection in first lane).



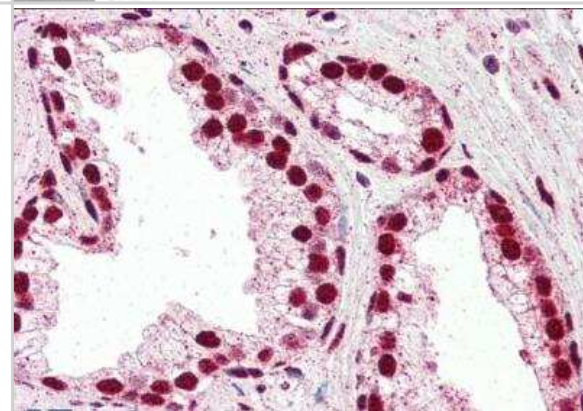
Immunohistochemistry-Paraffin: IRF6 Antibody [NBP1-51911] - Staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



Western Blot: IRF6 Antibody [NBP1-51911] - (0.2ug/ml) of Human Ovary lysate (RIPA buffer, 35ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Immunohistochemistry-Paraffin: IRF6 Antibody [NBP1-51911] - staining of paraffin embedded Human Prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



## Publications

Kim IK, Diamond M, Yuan S et al. Plasticity-induced repression of Irf6 underlies acquired resistance to cancer immunotherapy Research Square 2023-06-02 [PMID: 37398248]

Boudra R, Patenall BL, King S et al. PRMT1 Inhibition Selectively Targets BNC1-Dependent Proliferation, but not Migration in Squamous Cell Carcinoma bioRxiv : the preprint server for biology 2023-03-27 [PMID: 37034732] (ChIP)

Huang R, Hu Z et al. The Transcription Factor IRF6 Co-Represses PPAR gamma-Mediated Cytoprotection in Ischemic Cerebrovascular Endothelial Cells. Sci Rep 2017-05-19 [PMID: 28526834] (IP, Mouse)

Li C, Ying W, Huang Z et al. IRF6 regulates alternative activation by suppressing PPARγ in male murine macrophages. Endocrinology. 2017-06-22 [PMID: 28645193]

Kondo S, Schutte BC, Richardson RJ et al. Mutations in IRF6 cause Van der Woude and popliteal pterygium syndromes. Nat Genet 2002-10-01 [PMID: 12219090]

Hu L, Liu J, Li Z et al. TGFB3 Regulates Periderm Removal through delta-np63 in the Developing Palate J. Cell. Physiol. 2014-10-30 [PMID: 25358290] (WB, Mouse)

Details:  
IRF6 antibody used for WB on lysates of medial edge epithelial cells collected from WT mouse at 14.25 dpc subjected to exogenous recombinant rTGF beta 3 (5ng/mL) treatment. Figure 6 i and ii shows the time and concentration dependent response of cells to rTGF beta 3.

Moretti F, Marinari B, Lo Iacono N et al. A regulatory feedback loop involving p63 and IRF6 links the pathogenesis of 2 genetically different human ectodermal dysplasias. J Clin Invest 2010-04-26 [PMID: 20424325] (WB)

Botti E, Spallone G, Moretti F et al. Developmental factor IRF6 exhibits tumor suppressor activity in squamous cell carcinomas. Proc Natl Acad Sci U S A 2011-08-16 [PMID: 21807998] (Chemotaxis)





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### Products Related to NBP1-51911

HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control
H00003664-P01-10ug	Recombinant Human IRF6 GST (N-Term) Protein

### 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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