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Goat Anti-IRF6 Antibody

Peptide-affinity purified goat antibody

Catalog # AF1572a

Specification

Goat Anti-IRF6 Antibody - Product Information

Application	**WB, IHC, E**
Primary Accession	O14896
Other Accession	NP_006138, 3664, 54139 (mouse)
Reactivity	**Human**
Predicted	**Mouse**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**53130**

Goat Anti-IRF6 Antibody - Additional Information

Gene ID 3664

Other Names
Interferon regulatory factor 6, IRF-6, IRF6

Dilution
WB~~1:1000
IHC~~1:100~500
E~~N/A

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-IRF6 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-IRF6 Antibody - Protein Information

Name IRF6

Function
Probable DNA-binding transcriptional activator. Key determinant of the keratinocyte

proliferation-differentiation switch involved in appropriate epidermal development (By similarity). Plays a role in regulating mammary epithelial cell proliferation (By similarity). May regulate WDR65 transcription (By similarity).

Cellular Location
Nucleus. Cytoplasm Note=Translocates to nucleus in response to an activating signal

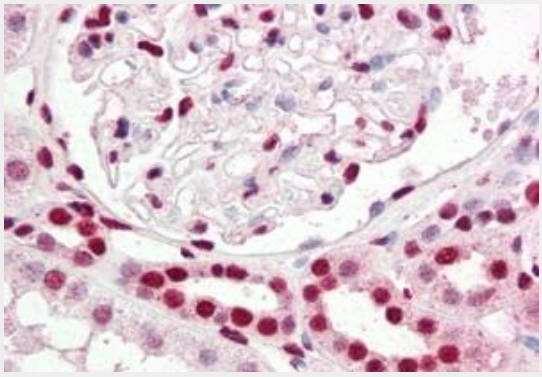
Tissue Location
Expressed in normal mammary epithelial cells. Expression is reduced or absent in breast carcinomas

Goat Anti-IRF6 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-IRF6 Antibody - Images



AF1572a (2.5 µg/ml) staining of paraffin embedded Human Kidney. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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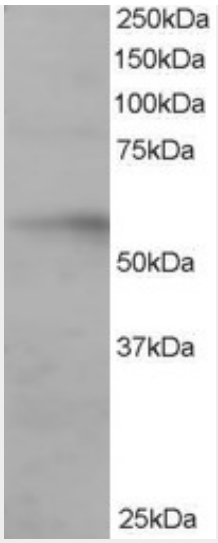
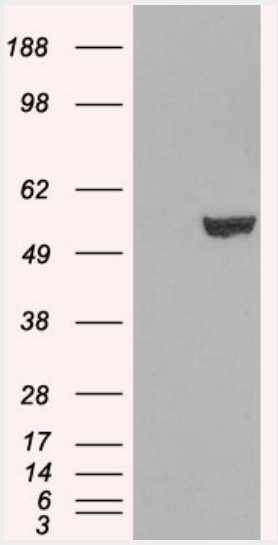


AF1572a staining (0.2 µg/ml) of Human Ovary lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



HEK293 overexpressing IRF6 (RC201579) and probed with AF1572a (mock transfection in first lane), tested by Origene.

Goat Anti-IRF6 Antibody - Background

This gene encodes a member of the interferon regulatory transcription factor (IRF) family. Family members share a highly-conserved N-terminal helix-turn-helix DNA-binding domain and a less conserved C-terminal protein-binding domain. Mutations in this gene can cause van der Woude syndrome and popliteal pterygium syndrome. This protein is involved in palate formation.

Goat Anti-IRF6 Antibody - References

IRF6 polymorphisms are associated with nonsyndromic orofacial clefts in a Chinese Han population. Pan Y, et al. Am J Med Genet A, 2010 Aug 26. PMID 20799332.
Genetic variants in COL2A1, COL11A2, and IRF6 contribute risk to nonsyndromic cleft palate. Nikopensius T, et al. Birth Defects Res A Clin Mol Teratol, 2010 Jul 29. PMID 20672350.
Evidence of gene-environment interaction for the IRF6 gene and maternal multivitamin supplementation in controlling the risk of cleft lip with/without cleft palate. Wu T, et al. Hum Genet, 2010 Oct. PMID 20652317.

Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891.
MTHFR and MSX1 contribute to the risk of nonsyndromic cleft lip/palate. Jagom□gi T, et al. Eur J Oral Sci, 2010 Jun. PMID 20572854.