

Goat Anti-UXT Antibody
Peptide-affinity purified goat antibody
Catalog # AF2139a

Specification

Goat Anti-UXT Antibody - Product Information

Application	WB, IHC
Primary Accession	O9UBK9
Other Accession	NP_705582 , 8409
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	18246

Goat Anti-UXT Antibody - Additional Information

Gene ID 8409

Other Names

Protein UXT, Androgen receptor trapped clone 27 protein, ART-27, Ubiquitously expressed transcript protein, UXT

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-UXT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-UXT Antibody - Protein Information

Name UXT

Function

Involved in gene transcription regulation (PubMed:[21730289](http://www.uniprot.org/citations/21730289), PubMed:[28106301](http://www.uniprot.org/citations/28106301)). Acts in concert with the corepressor URI1 to regulate androgen receptor AR-mediated transcription (PubMed:[11854421](http://www.uniprot.org/citations/11854421), PubMed:[21730289](http://www.uniprot.org/citations/21730289)).

Together with URI1, associates with chromatin to the NKX3-1 promoter region (PubMed:21730289). Negatively regulates the transcriptional activity of the estrogen receptor ESR1 by inducing its translocation into the cytoplasm (PubMed:28106301). May act as nuclear chaperone that facilitates the formation of the NF-kappa-B enhanceosome and thus positively regulates NF-kappa-B transcription activity (PubMed:17620405, PubMed:21307340). Potential component of mitochondrial-associated LRPPRC, a multidomain organizer that potentially integrates mitochondria and the microtubular cytoskeleton with chromosome remodeling (PubMed:17554592). Increasing concentrations of UXT contributes to progressive aggregation of mitochondria and cell death potentially through its association with LRPPRC (PubMed:17554592). Suppresses cell transformation and it might mediate this function by interaction and inhibition of the biological activity of cell proliferation and survival stimulatory factors like MECOM (PubMed:17635584).

Cellular Location

[Isoform 1]: Cytoplasm Cytoplasm. Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, spindle pole Note=Predominantly localizes to the nucleus (PubMed:16221885) Localizes to spindle pole during mitosis (PubMed:16221885)

Tissue Location

Ubiquitous (PubMed:10087202, PubMed:11827465, PubMed:11854421, PubMed:17635584). Expressed in prostate epithelial cells (PubMed:21730289). Expressed in mammary epithelial cells (PubMed:28106301). Highest levels in the heart, skeletal muscle, pancreas, kidney, liver, adrenal gland, peripheral blood leukocytes, lymph node, prostate, and thyroid and the lowest levels in bladder and uterus (PubMed:11827465, PubMed:11854421, PubMed:17635584) Overexpressed in a number of tumor tissues (PubMed:11854421, PubMed:16221885, PubMed:28106301).

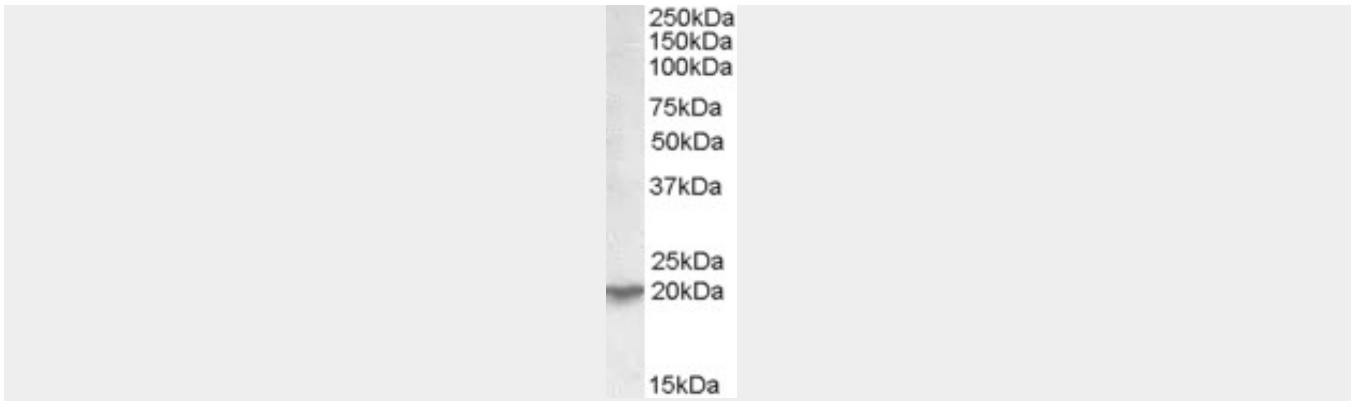
Goat Anti-UXT Antibody - Protocols

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

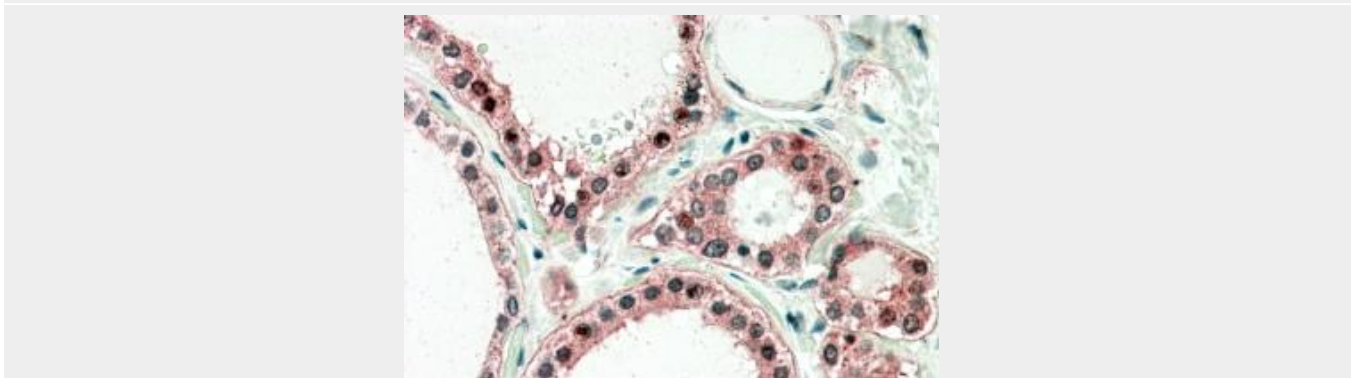
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Goat Anti-UXT Antibody - Images





AF2139a (0.03 $\mu\text{g/ml}$) staining of Human Kidney lysate (35 μg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF2139a (5 $\mu\text{g/ml}$) staining of paraffin embedded Human Thyroid Gland. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-UXT Antibody - Background

This gene encodes a novel protein which is highly conserved in mouse. It interacts with the N-terminus of the androgen receptor and plays a role in facilitating receptor-induced transcriptional activation. It is also likely to be involved in tumorigenesis as it is abundantly expressed in tumor tissues. This gene is part of a gene cluster on chromosome Xp11.23. Alternative splicing results in 2 transcript variants encoding different isoforms.

Goat Anti-UXT Antibody - References

High-resolution mapping of the protein interaction network for the human transcription machinery and affinity purification of RNA polymerase II-associated complexes. Cloutier P, et al. *Methods*, 2009 Aug. PMID 19450687.

Transcriptional regulation of the androgen receptor cofactor androgen receptor trapped clone-27. Nwachukwu JC, et al. *Mol Endocrinol*, 2007 Dec. PMID 17761951.

Systematic analysis of the protein interaction network for the human transcription machinery reveals the identity of the 7SK capping enzyme. Jeronimo C, et al. *Mol Cell*, 2007 Jul 20. PMID 17643375.

UXT interacts with the transcriptional repressor protein EVI1 and suppresses cell transformation. McGilvray R, et al. *FEBS J*, 2007 Aug. PMID 17635584.

UXT is a novel and essential cofactor in the NF-kappaB transcriptional enhanceosome. Sun S, et al. *J Cell Biol*, 2007 Jul 16. PMID 17620405.