

STOX1 Rabbit pAb

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Catalog # AP54982

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q6ZVD7
Reactivity	Human
Predicted	Rat, Pig, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110962
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human STOX1
Epitope Specificity	331-430/989
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus; Nucleus > nucleolus and Cytoplasm. Nucleus. Either found in the cytoplasm or in the nucleus. Nuclear expression of isoform A seems to be restricted to polyploid trophoblast cells.
DISEASE	Defects in STOX1 are the cause of pre-eclampsia/eclampsia 4 (PEE4) [MIM:609404]; also known as gestational proteinuric hypertension. Preeclampsia is a pregnancy-associated disease with maternal symptoms but placental origin. Unlike most other human disorders, it impacts 2 individuals, the mother and her child, both of whom can be severely affected. The pathological mechanism of PEE4 involves the loss of function of STOX1 in the placenta.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene may function as a DNA binding protein. Mutations in this gene are associated with pre-eclampsia/eclampsia 4 (PEE4). Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]

Additional Information

Gene ID	219736
Other Names	Storkhead-box protein 1, Winged-helix domain-containing protein, STOX1, C10orf24
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

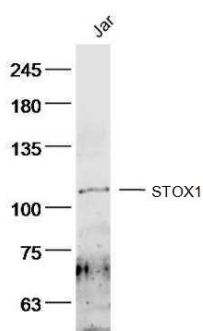
Protein Information

Name	STOX1
Synonyms	C10orf24
Function	Involved in regulating the levels of reactive oxidative species and reactive nitrogen species and in mitochondrial homeostasis in the placenta (PubMed: 24738702). Required for regulation of inner ear epithelial cell proliferation via the AKT signaling pathway (By similarity).
Cellular Location	[Isoform A]: Cytoplasm. Nucleus Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=In epithelial cells, diffusely expressed in the cytoplasm, particularly in peri-membrane cortical regions (By similarity). Concentrated at centrosomes during metaphase (PubMed:22253775). {ECO:0000250 UniProtKB:B2RQL2, ECO:0000269 PubMed:22253775} [Isoform C]: Nucleus, nucleolus.
Tissue Location	Expressed in placenta, including the invasive extravillous trophoblast cells.

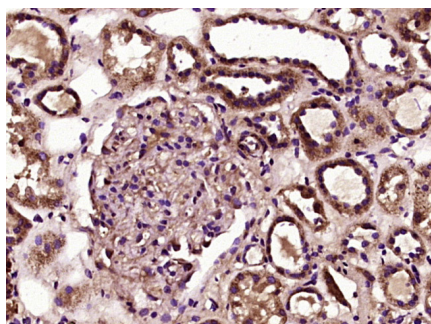
Background

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Images



Sample: Jar(Human) Cell Lysate at 40 ug
Primary: Anti-STOX1 (AP54982) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 111 kD
Observed band size: 111 kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (STOX1) Polyclonal Antibody, Unconjugated (AP54982) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.