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UBXD2 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP54592

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q92575
Reactivity	Rat, Pig, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	56778
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human UBXD2
Epitope Specificity	201-300/508
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	Endoplasmic reticulum membrane. Both the N- and the C-terminus face the cytosol; also found in the nucleus envelope contiguous to the ER.
SIMILARITY	Contains 1 UBX domain.
SUBUNIT	Directly interacts with VCP.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Erasin is an endoplasmic reticulum (ER) and nuclear envelope membrane protein. Expressed in a variety of tissues, such as brain, placenta, heart, liver, prostate, kidney, pancreas, lung and skeletal muscle, erasin contains one UBX domain and participates in the clearing of ERAD (endoplasmic reticulum-associated protein degradation) substrates. The UBX domain of erasin is responsible for mediating its direct interaction with VCP (valosin-containing protein), an AAA-ATPase molecular chaperone. In response to ER stress, erasin expression is induced. The knockdown of erasin expression leads to the inhibition of ERAD, suggesting an important function of erasin in the ERAD pathway. In addition, erasin may be involved in Alzheimer's disease, as it is known to accumulate in neurofibrillary degenerating neurons in patients with Alzheimer's disease.

Additional Information

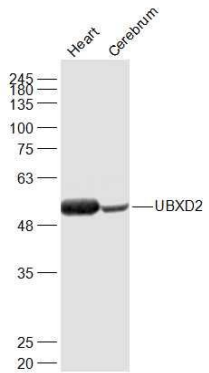
Gene ID	23190
Other Names	UBX domain-containing protein 4, Erasin, UBX domain-containing protein 2, UBXN4, KIAA0242, UBXD2, UBXDC1
Target/Specificity	Expressed in many tissues, including heart, brain, placenta, lung, liver, skeletal

	muscle, kidney and pancreas. Accumulates in Alzheimer disease-afflicted brains (at protein level).
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

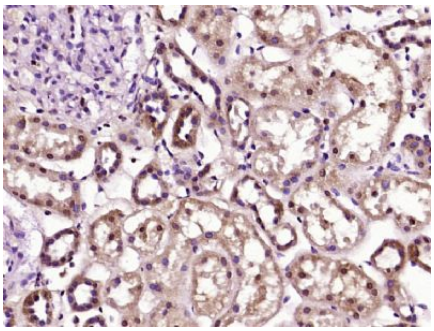
Protein Information

Name	UBXN4
Synonyms	KIAA0242, UBXD2, UBXDC1
Function	Involved in endoplasmic reticulum-associated protein degradation (ERAD). Acts as a platform to recruit both UBQLN1 and VCP to the ER during ERAD (PubMed:19822669).
Cellular Location	Endoplasmic reticulum membrane; Peripheral membrane protein. Nucleus envelope. Note=Both the N- and the C-terminus face the cytosol. Also found in the nucleus envelope contiguous to the ER
Tissue Location	Expressed in many tissues, including heart, brain, placenta, lung, liver, skeletal muscle, kidney and pancreas Accumulates in Alzheimer disease-afflicted brains (at protein level)

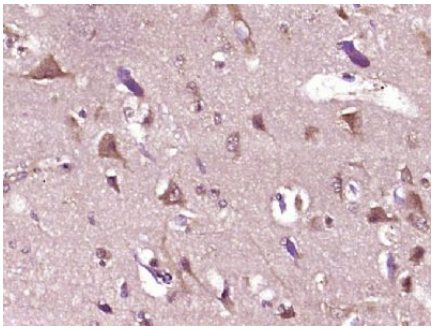
Images



Sample:
Heart (Mouse) Lysate at 40 ug
Cerebrum (Rat) Lysate at 40 ug
Primary: Anti-UBXD2 (AP54592) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 57 kD
Observed band size: 57 kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney); 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 (UBXD2) Polyclonal Antibody, Unconjugated (AP54592) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Human brain glioma); 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 (UBXD2) Polyclonal Antibody, Unconjugated (AP54592) 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'.