



Rabbit Anti-UBXD2 antibody

SL11675R

Product Name:	UBXD2
Chinese Name:	UBX结构域蛋白D2抗体
Alias:	Erasin; FLJ23318; KIAA0242; KIAA2042; UBX domain containing 1; UBX domain containing 2; UBX domain containing protein 2; UBXD 2; UBXDC 1; UBXDC1; UBXN4 HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	57kDa
Cellular localization:	cytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human UBXD2:201-300/508
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
PubMed:	PubMed
Product Detail:	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.

Function:

UBXD2 is an integral membrane protein of the endoplasmic reticulum (ER) that binds valosin-containing protein (VCP) and promotes ER-associated protein degradation (ERAD). Immunohistochemical staining of brain tissue from patients with Alzheimer's disease and control subjects revealed that UBXD2 accumulates preferentially in neurons undergoing neurofibrillary degeneration in Alzheimer's disease.

Subunit:

Directly interacts with VCP.

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.

Tissue 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).

Post-translational modifications:

Phosphorylated upon DNA damage, probably by ATM or ATR.

Similarity:

Contains 1 UBX domain.

SWISS:

Q92575

Gene ID:

23190

Database links:

[Entrez Gene: 476130](#)Dog

[Entrez Gene: 23190](#)Human

[Entrez Gene: 67812](#)Mouse

[Entrez Gene: 304766](#)Rat

[Oimim: 611216](#)Human

[SwissProt: Q92575](#)Human

[SwissProt: Q8VCH8](#)Mouse

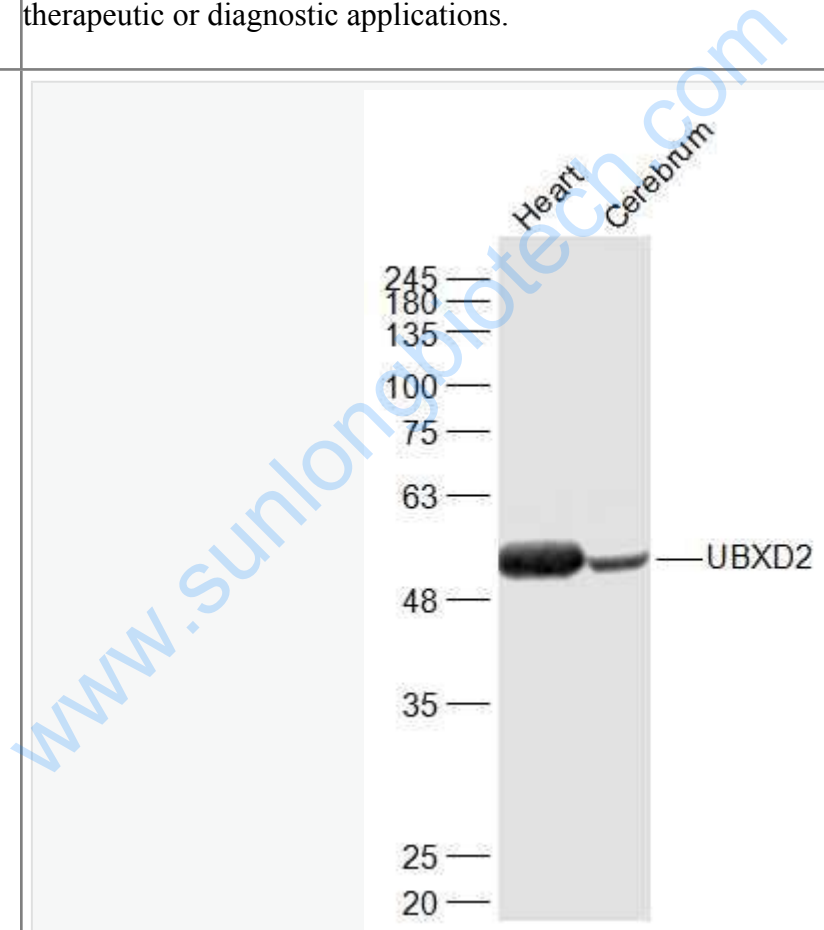
[SwissProt: Q5HZY0](#)Rat

[Unigene: 709238](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

Heart (Mouse) Lysate at 40 ug

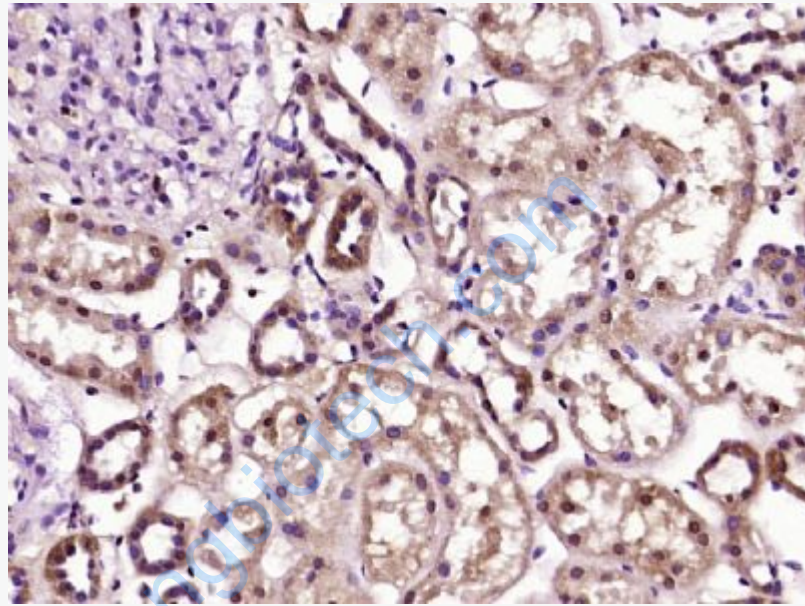
Cerebrum (Rat) Lysate at 40 ug

Primary: Anti-UBXD2 ? (SL11675R) at 1/1000 dilution

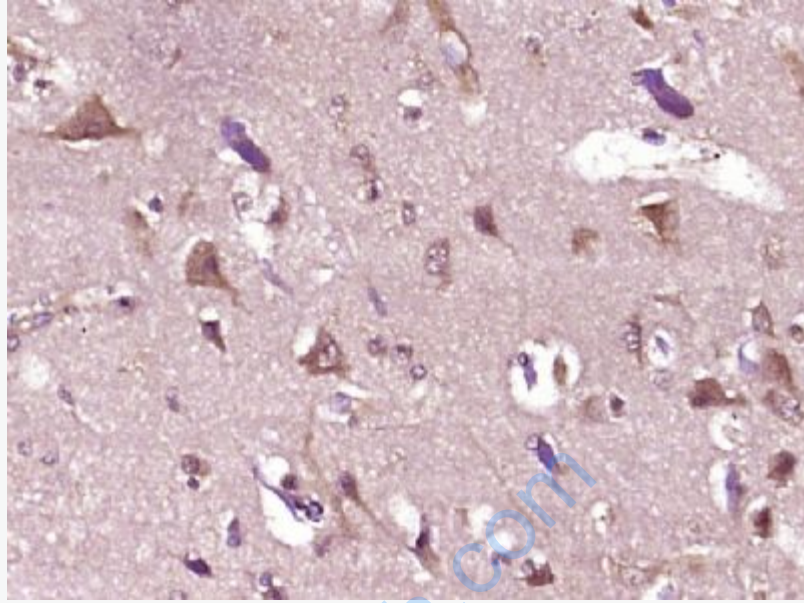
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

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 (SL11675R) 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 (SL11675R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.