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UBXN2B Rabbit pAb

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Catalog # AP55239

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q14CS0
Reactivity	Rat, Mouse
Predicted	Pig, Human, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37077
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human UBXN2B
Epitope Specificity	201-300/331
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. Cytoplasm; cytosol. Endoplasmic reticulum. Golgi apparatus.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The UBX (Ubiquitin regulatory X) domain is an 80 amino acid motif that is usually present on the carboxy-terminus of certain eukaryotic proteins. UBX domain-containing proteins (UBXD), such as FAF1, p33ING1 and D8S2298E, are typically involved in ubiquitin-related processes. UBXD proteins also constitute the largest family of VCP cofactors and are generally involved in substrate recruitment to VCP, as well as regulation of its activity. UBXD2B (UBX domain-containing protein 2B), also known as NSFL1 cofactor p37 and p97 cofactor p37, is a 331 amino acid protein that contains one UBX domain and one SEP domain. UBXN2B is required for ER and Golgi biogenesis and also plays a role in their maintenance during interphase, as well as their reassembly at the end of mitosis. Through interaction with VCP, UBXN2B forms a complex that has membrane fusion activity.

Additional Information

Gene ID	137886
Other Names	UBX domain-containing protein 2B, NSFL1 cofactor p37, p97 cofactor p37, UBXN2B
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	UBXN2B
Function	Adapter protein required for Golgi and endoplasmic reticulum biogenesis (PubMed:17141156). Involved in Golgi and endoplasmic reticulum maintenance during interphase and in their reassembly at the end of mitosis (PubMed:17141156). The complex formed with VCP has membrane fusion activity; membrane fusion activity requires USO1-GOLGA2 tethering and BET1L (PubMed:17141156). VCPIP1 is also required, but not its deubiquitinating activity (PubMed:17141156). Together with NSFL1C/p47, regulates the centrosomal levels of kinase AURKA/Aurora A during mitotic progression by promoting AURKA removal from centrosomes in prophase (PubMed:23649807). Also, regulates spindle orientation during mitosis (PubMed:23649807).
Cellular Location	Nucleus {ECO:0000250|UniProtKB:P0C627}. Cytoplasm, cytosol {ECO:0000250|UniProtKB:P0C627}. Endoplasmic reticulum {ECO:0000250|UniProtKB:P0C627}. Golgi apparatus {ECO:0000250|UniProtKB:P0C627}. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome {ECO:0000250|UniProtKB:Q0KL01} Note=Localizes to centrosome during mitotic prophase and metaphase {ECO:0000250|UniProtKB:Q0KL01}

Background

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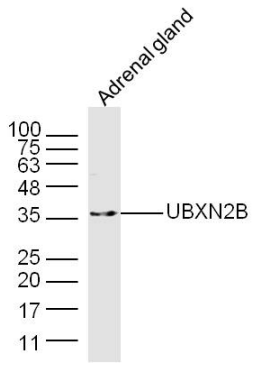
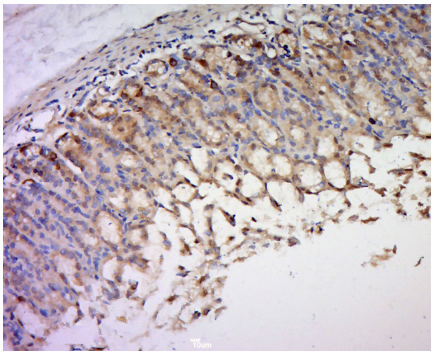
Images



Sample: Adrenal gland (Mouse) Lysate at 40 ug
Primary: Anti-UBXN2B(AP55239) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 37 kD
Observed band size: 37 kD



Paraformaldehyde-fixed, paraffin embedded (Rat stomach); 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 (UBXN2B) Polyclonal Antibody, Unconjugated (AP55239) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.