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UBP46 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14161b

Product Information

Application	WB, E
Primary Accession	P62068
Other Accession	P62069, A5WWB0, NP_001127695.1, NP_073743.2
Reactivity	Human
Predicted	Zebrafish, Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34879
Calculated MW	42442
Antigen Region	241-269

Additional Information

Gene ID	64854
Other Names	Ubiquitin carboxyl-terminal hydrolase 46, Deubiquitinating enzyme 46, Ubiquitin thioesterase 46, Ubiquitin-specific-processing protease 46, USP46
Target/Specificity	This UBP46 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 241-269 amino acids from the C-terminal region of human UBP46.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	UBP46 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	USP46
Function	Deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. May act by mediating the deubiquitination of

	GAD1/GAD67 (By similarity). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity (PubMed:19075014, PubMed:26388029). Not involved in deubiquitination of monoubiquitinated FANCD2 (PubMed:19075014).
Cellular Location	Cytoplasm. Note=USP46/WDR48/WDR20 complex is predominantly cytoplasmic
Tissue Location	Broadly expressed..

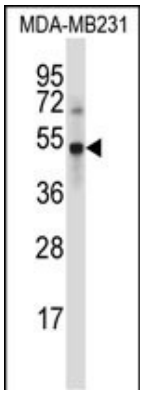
Background

Modification of cellular proteins by ubiquitin is an essential regulatory mechanism controlled by the coordinated action of multiple ubiquitin-conjugating and deubiquitinating enzymes. USP46 belongs to a large family of cysteine proteases that function as deubiquitinating enzymes (Quesada et al., 2004 [PubMed 14715245]).

References

Kushima, I., et al. J. Hum. Genet. 55(3):133-136(2010)
Cohn, M.A., et al. J. Biol. Chem. 284(8):5343-5351(2009)
Zemunik, T., et al. Croat. Med. J. 50(1):23-33(2009)
Quesada, V., et al. Biochem. Biophys. Res. Commun. 314(1):54-62(2004)
Puente, X.S., et al. Nat. Rev. Genet. 4(7):544-558(2003)

Images



UBP46 Antibody (C-term) (Cat. #AP14161b) western blot analysis in MDA-MB231 cell line lysates (35ug/lane).This demonstrates the UBP46 antibody detected the UBP46 protein (arrow).

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