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UBE2A/B Polyclonal Antibody

Catalog # AP73264

Product Information

Application	WB, IHC-P, IF, ICC, E
Primary Accession	P49459, P63146
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	17315

Additional Information

Gene ID	7319
Other Names	UBE2A; RAD6A; Ubiquitin-conjugating enzyme E2 A; RAD6 homolog A; HR6A; hHR6A; Ubiquitin carrier protein A; Ubiquitin-protein ligase A; UBE2B; RAD6B; Ubiquitin-conjugating enzyme E2 B;RAD6 homolog B; HR6B; hHR6B; Ubiquitin carrier protein B; Ubiquitin-conjugating enzyme E2-17 kDa; Ubiquitin-protein ligase B
Dilution	WB~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/10000. Not yet tested in other applications. IHC-P~~Western Blot: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/10000. Not yet tested in other applications. IF~~1:50~200 ICC~~N/A E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

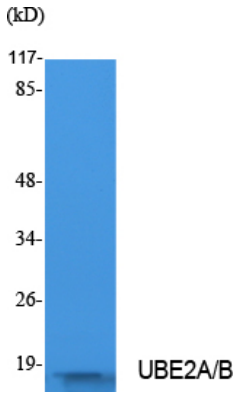
Protein Information

Name	UBE2A {ECO:0000303|PubMed:23685073, ECO:0000312|HGNC:HGNC:12472}
Function	E2 ubiquitin-conjugating enzyme that accepts ubiquitin from the ubiquitin-activating enzyme E1 and transfers it to a E3 ubiquitin- protein ligase (PubMed:16337599, PubMed:20061386, PubMed:23685073, PubMed:25582440, PubMed:38297121). In vitro catalyzes 'Lys-11', as well as 'Lys-48'-linked polyubiquitination (PubMed:20061386). Together with the E3 enzyme BRE1 (RNF20 and/or RNF40), plays a role in transcription regulation by catalyzing the monoubiquitination of histone H2B at 'Lys- 120' to form H2BK120ub1 (PubMed:16337599). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation, elongation by RNA polymerase II, telomeric silencing, and is also a prerequisite for H3K4me and H3K79me formation (PubMed:16337599). Involved in mitophagy by acting as a E2

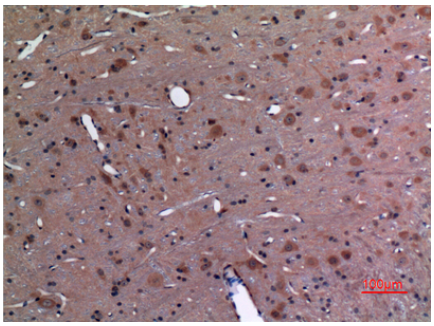
ubiquitin-conjugating enzyme for PRKN (PubMed:23685073). In association with the E3 enzyme UBR4, is involved in N-end rule-dependent protein degradation (PubMed:38182926). In association with the E3 ubiquitin-protein ligase complex SIFI, inhibits the mitochondrial stress response by acting as a E2 ubiquitin- conjugating enzyme for UBR4 and KCMF1 (PubMed:38297121).

Cellular Location Late endosome. Lysosome

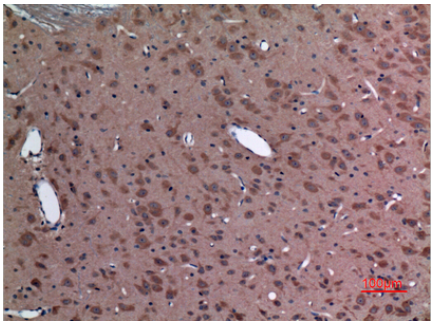
Images



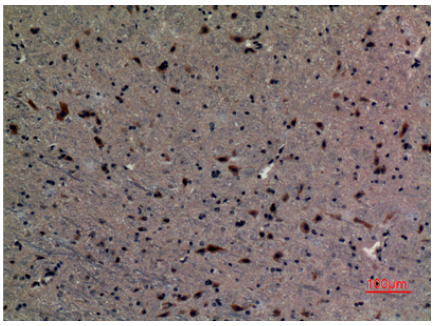
Western Blot analysis of extracts from Jurkat cells, using UBE2A/B Polyclonal Antibody.. Secondary antibody was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded rat-brain, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded mouse-brain, antibody was diluted at 1:100

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