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Anti-KPC2 Antibody

Catalog # AP61009

Product Information

Application	WB, IHC
Primary Accession	Q9BSL1
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45338

Additional Information

Gene ID	10422
Other Names	GBDR1; KPC2; UBADC1; Ubiquitin-associated domain-containing protein 1; UBA domain-containing protein 1; E3 ubiquitin-protein ligase subunit KPC2; Glialblastoma cell differentiation-related protein 1; Kip1 ubiquitination-promoting complex protein 2
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human KPC2. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IHC~~WB (1/500 - 1/1000), IHC (1/50 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

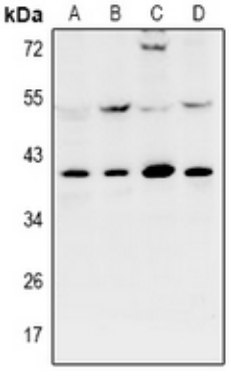
Protein Information

Name	UBAC1
Function	Non-catalytic component of the KPC complex, a E3 ubiquitin- protein ligase complex that mediates polyubiquitination of target proteins, such as CDKN1B and NFKB1 (PubMed:15531880, PubMed:15746103, PubMed:16227581, PubMed:25860612). The KPC complex catalyzes polyubiquitination and proteasome-mediated degradation of CDKN1B during G1 phase of the cell cycle (PubMed:15531880, PubMed:15746103). The KPC complex also acts as a key regulator of the NF-kappa-B signaling by promoting maturation of the NFKB1 component of NF-kappa-B by catalyzing ubiquitination of the NFKB1 p105 precursor (PubMed:25860612). Within the KPC complex, UBAC1 acts as an adapter that promotes the transfer of target proteins that have been polyubiquitinated by RNF123/KPC1 to the 26S proteasome (PubMed:16227581).

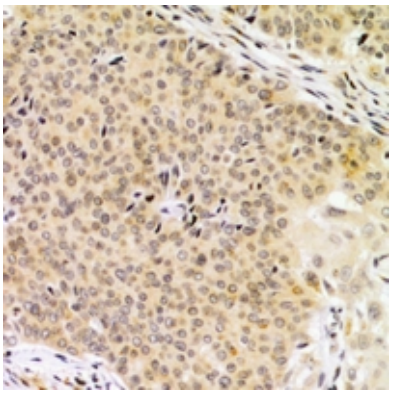
Cellular Location Cytoplasm

Tissue Location Ubiquitous..

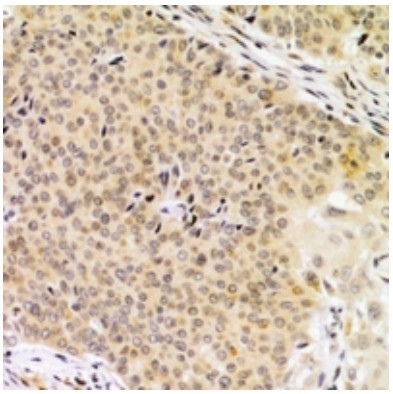
Images



Western blot analysis of KPC2 expression in MCF7 (A), HCT116 (B), PC12 (C), AML12 (D) whole cell lysates. (Predicted band size: 45 kD; Observed band size: 51; 40 kD)



Immunohistochemical analysis of KPC2 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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