



UBA2 Polyclonal Antibody

Catalog No	YP-Ab-02809
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;IHC;IF;ELISA
Gene Name	UBA2
Protein Name	SUMO-activating enzyme subunit 2
Immunogen	The antiserum was produced against synthesized peptide derived from human Uba2. AA range:591-640
Specificity	UBA2 Polyclonal Antibody detects endogenous levels of UBA2 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	UBA2; SAE2; UBLE1B; HRIHFB2115; SUMO-activating enzyme subunit 2; Anthracycline-associated resistance ARX; Ubiquitin-like 1-activating enzyme E1B
Observed Band	71kD
Cell Pathway	Cytoplasm. Nucleus. Shuttles between the cytoplasm and the nucleus, sumoylation is required either for nuclear translocation or nuclear retention.
Tissue Specificity	Brain,Cervix carcinoma,Fetal brain,Placenta,Skin,Testis,
Function	function:The dimeric enzyme acts as a E1 ligase for SUMO1, SUMO2, SUMO3, and probably SUMO4. It mediates ATP-dependent activation of SUMO proteins and formation of a thioester with a conserved cysteine residue on SAE2.,pathway:Protein modification; protein sumoylation.,similarity:Belongs to the ubiquitin-activating E1 family.,subunit:Heterodimer of SAE1 and SAE2. The complex binds SUMO proteins via SAE2.,
Background	Posttranslational modification of proteins by the addition of the small protein SUMO (see SUMO1; MIM 601912), or sumoylation, regulates protein structure and intracellular localization. SAE1 (MIM 613294) and UBA2 form a heterodimer that functions as a SUMO-activating enzyme for the sumoylation of proteins (Okuma et al., 1999 [PubMed 9920803]).[supplied by OMIM, Mar 2010],



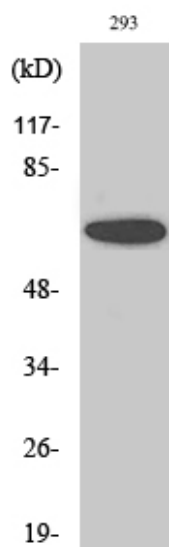
matters needing attention

Avoid repeated freezing and thawing!

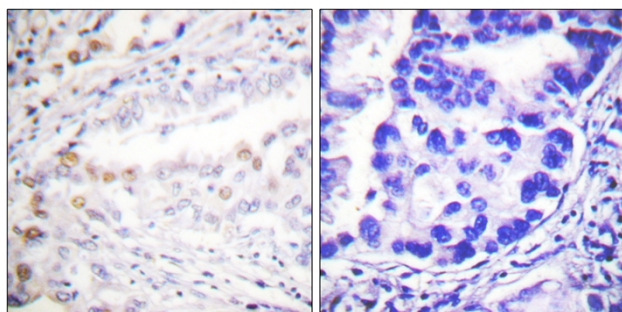
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

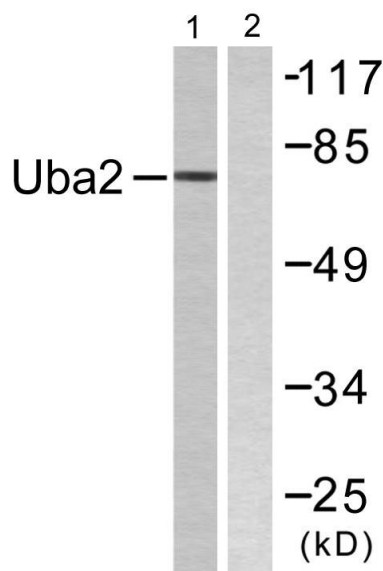
Products Images



Western Blot analysis of various cells using UBA2 Polyclonal Antibody. Secondary antibody(catalog#:RS0002) was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Inventbiotech, MN, USA).



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Uba2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, treated with UV 5', using Uba2 Antibody. The lane on the right is blocked with the synthesized peptide.