

Anti-UBE3A Monoclonal Antibody
Catalog # ABO14508**Specification****Anti-UBE3A Monoclonal Antibody - Product Information**

Application	WB
Primary Accession	Q05086
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-UBE3A Monoclonal Antibody . Tested in WB application. This antibody reacts with Human, Mouse, Rat.

Anti-UBE3A Monoclonal Antibody - Additional Information

Gene ID 7337

Other Names

Ubiquitin-protein ligase E3A, 2.3.2.26, E6AP ubiquitin-protein ligase, HECT-type ubiquitin transferase E3A, Human papillomavirus E6-associated protein, Oncogenic protein-associated protein E6-AP, Renal carcinoma antigen NY-REN-54, UBE3A ([HGNC:12496](http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=12496))

Application Details

WB 1:500-1:2000

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human UBE3A E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates. Several substrates have been identified including the RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B.

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-UBE3A Monoclonal Antibody - Protein Information

Name UBE3A ([HGNC:12496](#))

Function

E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and transfers it to its substrates (PubMed:[10373495](http://www.uniprot.org/citations/10373495), PubMed:[16772533](http://www.uniprot.org/citations/16772533), PubMed:[19204938](http://www.uniprot.org/citations/19204938), PubMed:[19233847](http://www.uniprot.org/citations/19233847), PubMed:[19325566](http://www.uniprot.org/citations/19325566), PubMed:[19591933](http://www.uniprot.org/citations/19591933), PubMed:[22645313](http://www.uniprot.org/citations/22645313), PubMed:[24273172](http://www.uniprot.org/citations/24273172), PubMed:[24728990](http://www.uniprot.org/citations/24728990), PubMed:[30020076](http://www.uniprot.org/citations/30020076)). Several substrates have been identified including the BMAL1, ARC, LAMTOR1, RAD23A and RAD23B, MCM7 (which is involved in DNA replication), annexin A1, the PML tumor suppressor, and the cell cycle regulator CDKN1B (PubMed:[10373495](http://www.uniprot.org/citations/10373495), PubMed:[19204938](http://www.uniprot.org/citations/19204938), PubMed:[19325566](http://www.uniprot.org/citations/19325566), PubMed:[19591933](http://www.uniprot.org/citations/19591933), PubMed:[22645313](http://www.uniprot.org/citations/22645313), PubMed:[24728990](http://www.uniprot.org/citations/24728990), PubMed:[30020076](http://www.uniprot.org/citations/30020076)). Additionally, may function as a cellular quality control ubiquitin ligase by helping the degradation of the cytoplasmic misfolded proteins (PubMed:[19233847](http://www.uniprot.org/citations/19233847)). Finally, UBE3A also promotes its own degradation in vivo. Plays an important role in the regulation of the circadian clock: involved in the ubiquitination of the core clock component BMAL1, leading to its proteasomal degradation (PubMed:[24728990](http://www.uniprot.org/citations/24728990)). Acts as transcriptional coactivator of progesterone receptor PGR upon progesterone hormone activation (PubMed:[16772533](http://www.uniprot.org/citations/16772533)). Acts as a regulator of synaptic development by mediating ubiquitination and degradation of ARC (By similarity). Required for synaptic remodeling in neurons by mediating ubiquitination and degradation of LAMTOR1, thereby limiting mTORC1 signaling and activity-dependent synaptic remodeling (By similarity). Synergizes with WBP2 in enhancing PGR activity (PubMed:[16772533](http://www.uniprot.org/citations/16772533)).

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:O08759}. Nucleus {ECO:0000250|UniProtKB:O08759}

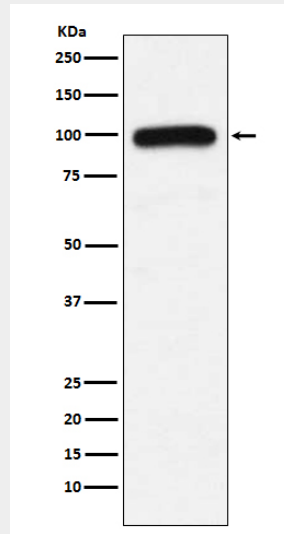
Anti-UBE3A Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

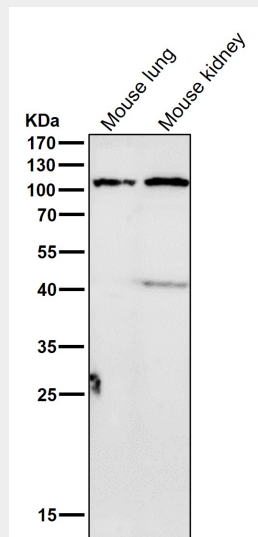
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)

- [Cell Culture](#)

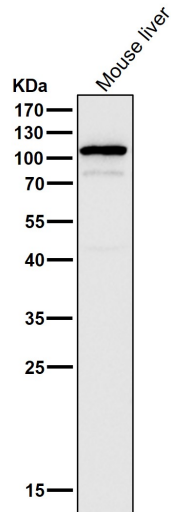
Anti-UBE3A Monoclonal Antibody - Images



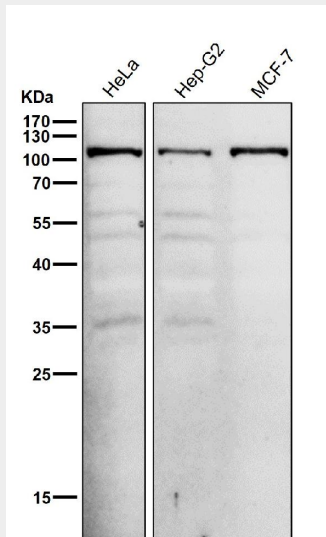
Western blot analysis of UBE3A expression in K562 cell lysate.



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



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