

Anti-RNF144B Antibody
Rabbit polyclonal antibody to RNF144B
Catalog # AP60952**Specification**

Anti-RNF144B Antibody - Product Information

Application	WB
Primary Accession	Q7Z419
Other Accession	Q8BKD6
Reactivity	Human, Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	33697

Anti-RNF144B Antibody - Additional Information**Gene ID** 255488**Other Names**

IBRDC2; P53RFP; E3 ubiquitin-protein ligase RNF144B; IBR domain-containing protein 2; RING finger protein 144B; p53-inducible RING finger protein

Target/Specificity

Recognizes endogenous levels of RNF144B protein.

Dilution

WB~~WB (1/500 - 1/1000)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-RNF144B Antibody - Protein Information**Name** RNF144B**Synonyms** IBRDC2, P53RFP**Function**

E3 ubiquitin-protein ligase which accepts ubiquitin from E2 ubiquitin-conjugating enzymes UBE2L3 and UBE2L6 in the form of a thioester and then directly transfers the ubiquitin to targeted substrates such as LCMT2, thereby promoting their degradation. Induces apoptosis via a p53/TP53-dependent but caspase-independent mechanism. Plays a crucial role in maintaining the genomic stability by controlling the degradation of multiple proteins involved in mitotic progression and DNA damage (PubMed:<a href="http://www.uniprot.org/citations/38685100"

target="_blank">38685100). Regulates epithelial homeostasis by mediating degradation of CDKN1A and isoform 2 of TP63 (PubMed:23128396). Plays a regulatory role in innate immunity by negatively regulating IRF3 activation and IFN-beta production. Mechanistically, inhibits TBK1 phosphorylation and 'Lys-63'-linked polyubiquitination independently of its E3 ligase activity (PubMed:31509299). Alternatively, promotes 'Lys-27' and 'Lys-33'-linked ubiquitination of IFIH1/MDA5, promoting selective autophagic degradation of IFIH1/MDA5 to inhibit antiviral response (PubMed:39285245).

Cellular Location

Mitochondrion membrane; Single-pass membrane protein. Cytoplasm. Note=Mostly cytosolic, accumulates in submitochondrial domains specifically upon apoptosis induction, in synchrony with BAX activation

Tissue Location

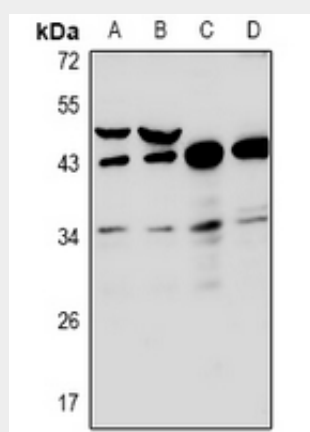
Broadly expressed, with lowest levels in brain and thymus, and highest levels detectable in heart, ovary and testis

Anti-RNF144B 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-RNF144B Antibody - Images



Western blot analysis of RNF144B expression in H1792 (A), A549 (B), CT26 (C), PC12 (D) whole cell lysates.

Anti-RNF144B Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human RNF144B. The exact sequence is proprietary.