10320 Camino Santa Fe, Suite G
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UBR5 Antibody (aa1-50)
Rabbit Polyclonal Antibody
Catalog # ALS15069

Specification

UBR5 Antibody (aa1-50) - Product Information

Application	**WB**
Primary Accession	O95071
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**309kDa KDa**

UBR5 Antibody (aa1-50) - Additional Information

Gene ID 51366

Other Names
E3 ubiquitin-protein ligase UBR5, 6.3.2.-, E3 ubiquitin-protein ligase, HECT domain-containing 1, Hyperplastic discs protein homolog, hHYD, Progestin-induced protein, UBR5, EDD, EDD1, HYD, KIAA0896

Target/Specificity
EDD Antibody detects endogenous levels of total EDD protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
UBR5 Antibody (aa1-50) is for research use only and not for use in diagnostic or therapeutic procedures.

UBR5 Antibody (aa1-50) - Protein Information

Name UBR5

Synonyms EDD, EDD1, HYD, KIAA0896

Function
E3 ubiquitin-protein ligase which is a component of the N-end rule pathway. Recognizes and binds to proteins bearing specific N- terminal residues that are destabilizing according to the N-end rule, leading to their ubiquitination and subsequent degradation (By similarity). Involved in maturation and/or transcriptional regulation of mRNA by activating CDK9 by polyubiquitination. May play a role in control of cell cycle progression. May have tumor suppressor function. Regulates DNA topoisomerase II binding protein (TopBP1) in the DNA damage response. Plays an essential role in extraembryonic development. Ubiquitinates acetylated PCK1. Also acts as a regulator of DNA damage response by acting as a suppressor of RNF168, an E3 ubiquitin-protein ligase that promotes accumulation of 'Lys-63'-linked histone H2A and H2AX at DNA damage sites, thereby

acting as a guard against excessive spreading of ubiquitinated chromatin at damaged chromosomes.

Cellular Location
Nucleus.

Tissue Location
Widely expressed. Most abundant in testis and expressed at high levels in brain, pituitary and kidney

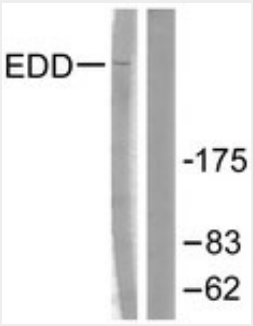
Volume
50 µl

UBR5 Antibody (aa1-50) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

UBR5 Antibody (aa1-50) - Images



Western blot of extracts from A549 cells, using EDD Antibody.

UBR5 Antibody (aa1-50) - Background

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UBR5 Antibody (aa1-50) - References

Callaghan M.J.,et al.Oncogene 17:3479-3491(1998).
Honda Y.,et al.J. Biol. Chem. 277:3599-3605(2002).
Nagase T.,et al.DNA Res. 5:355-364(1998).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Ohara O.,et al.Submitted (AUG-2005) to the EMBL/GenBank/DDBJ databases.