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HIP2 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2114c

Specification

HIP2 Antibody (Center) - Product Information

Application	**IHC-P, IF, WB,E**
Primary Accession	P61086
Other Accession	P61087, P61085, NP_005330
Reactivity	**Human, Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**109-139**

HIP2 Antibody (Center) - Additional Information

Gene ID 3093

Other Names
Ubiquitin-conjugating enzyme E2 K, Huntingtin-interacting protein 2, HIP-2, Ubiquitin carrier protein, Ubiquitin-conjugating enzyme E2-25 kDa, Ubiquitin-conjugating enzyme E2(25K), Ubiquitin-conjugating enzyme E2-25K, Ubiquitin-protein ligase, UBE2K, HIP2, LIG

Target/Specificity
This HIP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 109-139 amino acids from the Central region of human HIP2.

Dilution
IHC-P~~1:100
IF~~1:10~50
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HIP2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HIP2 Antibody (Center) - Protein Information

Name UBE2K

Synonyms HIP2, LIG

Function Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded lumenal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequence degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. In case of infection by cytomegaloviruses may be involved in the US11-dependent degradation of MHC class I heavy chains following their export from the ER to the cytosol. In case of viral infections may be involved in the HPV E7 protein-dependent degradation of RB1.

Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:P61085}.

Tissue Location
Expressed in all tissues tested, including spleen, thymus, prostate, testis, ovary, small intestine, colon, peripheral blood leukocytes, T-lymphocytes, monocytes, granulocytes and bone marrow mononuclear cells. Highly expressed in brain, with highest levels found in cortex and striatum and at lower levels in cerebellum and brainstem.

HIP2 Antibody (Center) - 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

HIP2 Antibody (Center) - Images

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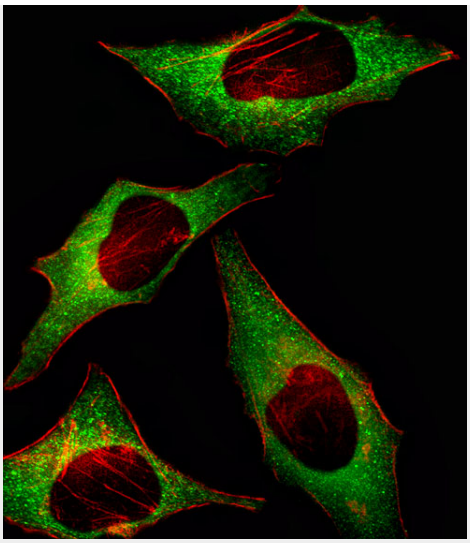
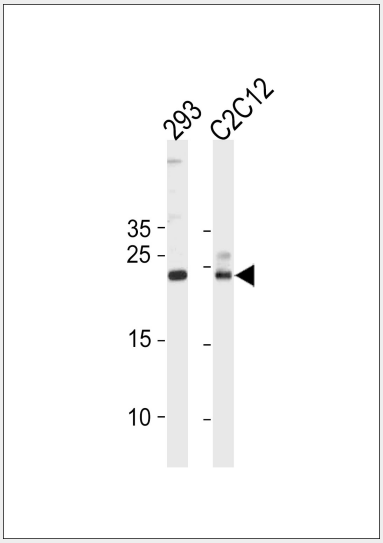


Fluorescent image of Hela cell stained with HIP2 Antibody (Center)(Cat#AP2114c/SH030911H).Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HIP2 primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃). HIP2 immunoreactivity is localized to Cytoplasm significantly.



HIP2 Antibody (D124) (Cat. #AP2114c) western blot analysis in 293,mouse C2C12 cell line lysates (35ug/lane).This demonstrates the HIP2 antibody detected the HIP2 protein (arrow).

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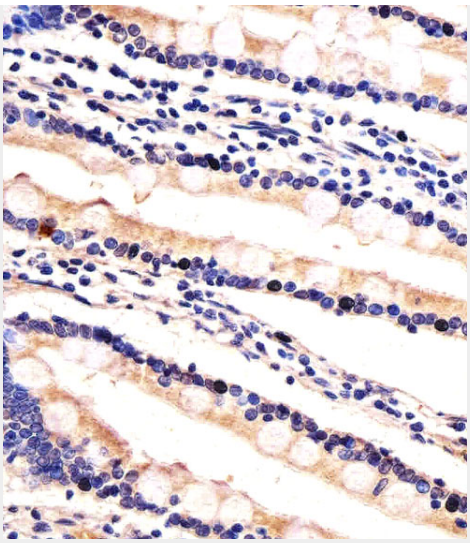

Immunohistochemical analysis of paraffin-embedded H. small intestine section using HIP2 Antibody (Center)(Cat#AP2114c). AP2114c was diluted at 1:100 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

HIP2 Antibody (Center) - Background

HIP2 belongs to the ubiquitin-conjugating enzyme family. It binds selectively to a large region at the N terminus of huntingtin. This interaction is not influenced by the length of the huntingtin polyglutamine tract. This protein has been implicated in the degradation of huntingtin and suppression of apoptosis.

HIP2 Antibody (Center) - References

Furukawa, Y., et al., Electrophoresis 21(2):338-346 (2000).
Kikuchi, J., et al., Arterioscler. Thromb. Vasc. Biol. 20(1):128-134 (2000).
Petersen, A., et al., Exp. Neurol. 157(1):1-18 (1999).
Kalchman, M.A., et al., J. Biol. Chem. 271(32):19385-19394 (1996).