

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

**Specification**

---

**HIP2 Antibody (Center) - Product Information**

Application	IF, WB, IHC-P,E
Primary Accession	<a href="#">P61086</a>
Other Accession	<a href="#">P61087</a> , <a href="#">P61085</a> , <a href="#">NP_005330</a>
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**

IF~~1:10~50  
WB~~1:1000  
IHC-P~~1:100

**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 luminal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent 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**

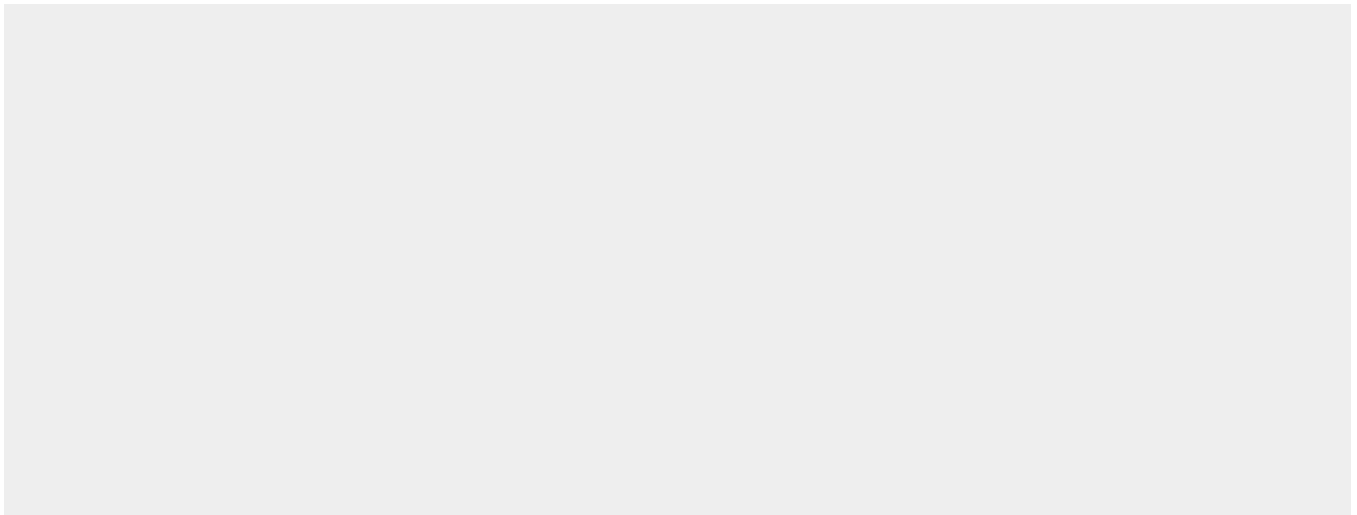
Expressed in all tissues tested, including spleen, thymus, prostate, testis, ovary, small intestine, colon, peripheral blood leukocytes, T-lymphocytes, monocytes, granulocytes and bone marrow mononuclear cells. Highly expressed in brain, with highest levels found in cortex and striatum and at lower levels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

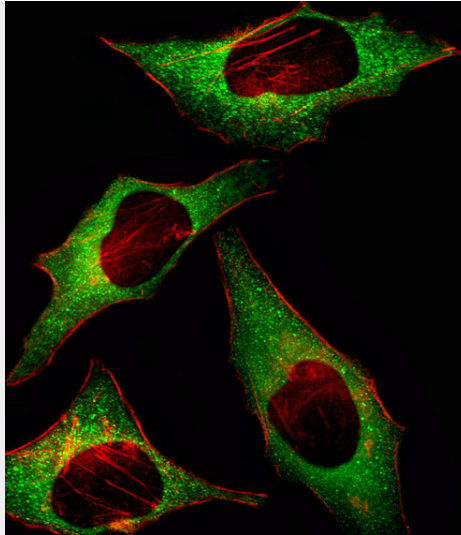
**HIP2 Antibody (Center) - Protocols**

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

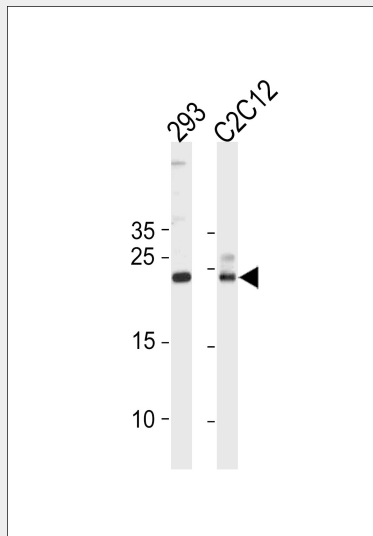
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**HIP2 Antibody (Center) - Images**

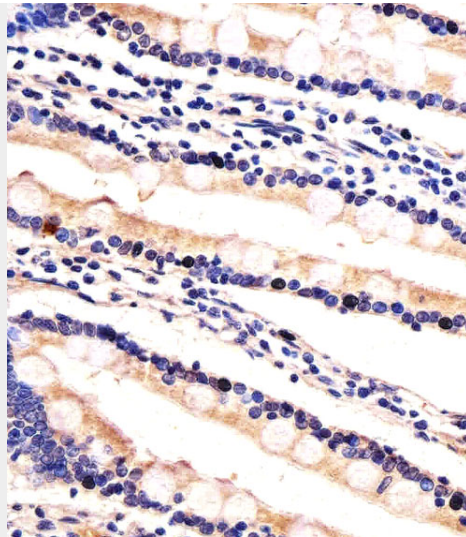




Fluorescent image of HeLa cell stained with HIP2 Antibody (Center)(Cat#AP2114c/SH030911H).HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HIP2 primary antibody (1:25, 1 h at 37°C). For secondary antibody, Alexa Fluor® 488 conjugated donkey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



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).