For Research Use Only

# UHRF2 Polyclonal antibody

Catalog Number:25710-1-AP 1 Publications

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## Basic Information

Catalog Number:
25710-1-AP

Size:
300 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG22519

GenBank Accession Number:
BC028397

GeneID (NCBI):
115426

UNIPROT ID:
Q96PU4

Full Name:
ubiquitin-like with PHD and ring finger domains 2

Calculated MW:
90 kDa

Observed MW:
90 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IF 1:400-1:1600

## Applications

Tested Applications:
WB, IP, IF/ICC, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human

Positive Controls:

WB : HL-60 cells, HeLa cells, Jurkat cells, PC-3 cells

IP : Jurkat cells,

IF : HepG2 cells,

## Background Information

Ubiquitin-Like with PHD and ring finger domains 2 (UHRF2), a member that belongs to the family of UHRF, contains five recognizable functional domains, namely the ubiquitin-like domain (UBL) domain, tandem-Tudor domain (TTD), plant homeodomain (PHD), SET and RING associated (SRA) domain, and really interesting new gene (RING) finger domain. Due to the complex structure, UHRF2 possesses multiple functions in diverse cellular processes. As a ubiquitin E3 ligase, UHRF2 could ubiquitinate PCNP, a nuclear protein that contains two remarkable PEST sequences which are rich in proline (P), glutamic acid (E), serine (S), and threonine (T). It has been also reported that UHRF2 could serve as a vital cell cycle regulator by interacting with multiple cyclins, CDKs, p53, pRB and PCNA. UHRF2 has been revealed to possess epigenetic regulation function and is capable of maintaining 5mC levels in certain genomic loci in brain and stabilizes TIP60 to regulate H3K9ac and H3K14ac through RING finger domain. Moreover, UHRF2 could promote DNA damage repair by reducing the level of p21 mediated by RING finger domain. Recently, emerging evidence indicated that UHRF2 was involved in the tumorigenesis and progression of several human cancers, such as esophageal squamous cell carcinoma, lung cancer and colorectal cancer. UHRF2 has 2 isoforms with the molecular mass of 56 and 90 kDa. (PMID: 34400880)

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Shengjun Geng | 35732617 | Cell Death Dis | WB |

## Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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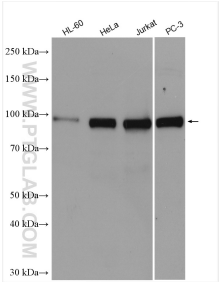
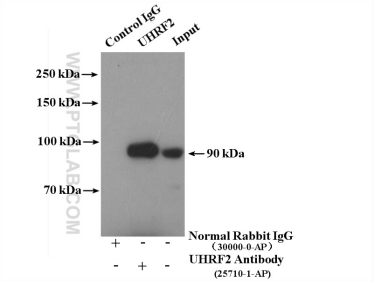
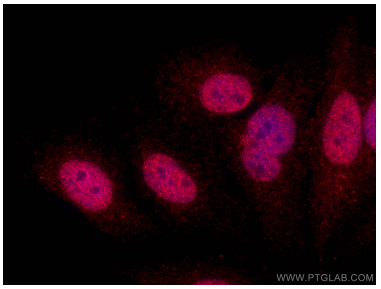
## Selected Validation Data




Various lysates were subjected to SDS PAGE followed by western blot with 25710-1-AP (UHRF2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.




IP result of anti-UHRF2 (IP:25710-1-AP, 4ug; Detection:25710-1-AP 1:300) with Jurkat cells lysate 4000ug.




Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using UHRF2 antibody (25710-1-AP) at dilution of 1:800 and CoraLite®594-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).