HINT1 Polyclonal ANTIBODY
Catalog Number: 10717-1-AP

**Basic Information**

- **Catalog Number:** 10717-1-AP
- **Size:** 50 μg/150 μl
- **Source:** Rabbit
- **Isotype:** IgG
- **Purification Method:** Antigen affinity purification
- **Immunogen Catalog Number:** AG1142
- **GenBank Accession Number:** BC007090
- **GeneID (NCBI):** 3094
- **Full Name:** Histidine triad nucleotide binding protein 1
- **Calculated MW:** 14 kDa
- **Observed MW:** 14 kDa

**Recommended Dilutions:**
- **WB:** 1:500-1:2000
- **IP:** 0.5-4.0 μg for IP and 1:500-1:1000 for WB
- **IHC:** 1:200-1:800

**Applications**

- **Tested Applications:** ELISA, WB, IP, IHC
- **Cited Applications:** IHC, WB

**Species Specificity:**
- human, mouse

**Positive Controls:**
- **WB:** HEK-293 cells, K562 cells, Raji cells, rat brain tissue, rat thymus tissue
- **IP:** mouse brain tissue
- **IHC:** human colon cancer tissue

**Background Information**

HINT1 (Histidine triad nucleotide-binding protein 1) is also named as HINT, PKCδ1, PRKCNH1, which is a member of the histidine triad (HIT) family, highly conserved in diverse species and ubiquitously expressed in mammalian tissues. It hydrolyzes adenosine 5'-monophosphoramidate substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester and AMP-NH2. This antibody is specific to HINT1.

**Notable Publications**

- **Author:** Agnieszka Krakowiak
  **PubMed ID:** 25199874
  **Journal:** Biochem Biophys Acta
  **Application:** WB

- **Author:** Huang Huaying H
  **PubMed ID:** 21468541
  **Journal:** Int J Oncol
  **Application:** WB, IHC

- **Author:** A Mitaki
  **PubMed ID:** 28394346
  **Journal:** Oncogene

**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.1% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting:** Unnecessary for -20°C storage

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For technical support and original validation data for this product please contact:

- **T:** 1 (888) 478-4522 (toll free in USA), or (312) 455-8488 (outside USA)
- **E:** proteintech@ptglab.com
- **W:** ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
HEK-293 cells were subjected to SDS-PAGE followed by western blot with 10717-1-AP/HINT1 antibody at dilution of 1:400 incubated at room temperature for 1.5 hours.

IP Result of anti-HINT1 (IP:10717-1-AP, 3ug; Detection:10717-1-AP 1:500) with mouse brain tissue lysate 7500ug.

Immunohistochemistry of paraffin-embedded human colon cancer tissue slide using 10717-1-AP HINT1 Antibody at dilution of 1:400 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).