

## **Hint1 Polyclonal Antibody**

Catalog No: YT2136

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: Hint1

Gene Name: HINT1

**Protein Name:** Histidine triad nucleotide-binding protein 1

P49773

P70349

Human Gene Id: 3094

**Human Swiss Prot** 

No:

Mouse Gene Id: 15254

**Mouse Swiss Prot** 

No:

**Rat Gene Id:** 690660

Rat Swiss Prot No: P62959

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

HINT1. AA range:71-120

**Specificity:** Hint1 Polyclonal Antibody detects endogenous levels of Hint1 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.

**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.



**Concentration:** 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 28kD

**Background:** This gene encodes a protein that hydrolyzes purine nucleotide

phosphoramidates substrates, including AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester, and AMP-NH2. The encoded protein interacts with these substrates via a histidine triad motif. This gene is considered a tumor suppressor gene. In addition, mutations in this gene can cause autosomal recessive neuromyotonia and axonal neuropathy. There are several related pseudogenes on chromosome 7. Several transcript variants have

been observed. [provided by RefSeq, Dec 2015],

**Function:** caution: Was originally thought to be a protein kinase C inhibitor and to bind zinc

in solution. Both seem to be incorrect.,domain:The histidine triad, also called HIT motif, forms part of the binding loop for the alpha-phosphate of purine mononucleotide.,function:Hydrolyzes adenosine 5'-monophosphoramidate substrates such as AMP-morpholidate, AMP-N-alanine methyl ester, AMP-alpha-acetyl lysine methyl ester and AMP-NH2.,similarity:Belongs to the HINT

family.,similarity:Contains 1 HIT domain.,subcellular location:Interaction with CDK7 leads to a more nuclear localization..subunit:Homodimer. Interacts with

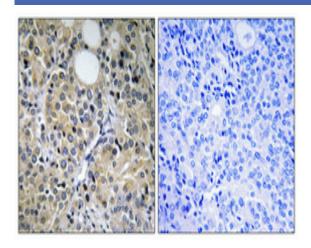
CDK7.,tissue specificity:Widely expressed.,

Subcellular Cytoplasm . Nucleus . Interaction with CDK7 leads to a more nuclear

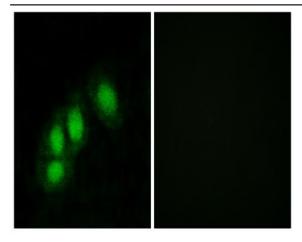
Location: localization. .

**Expression:** Widely expressed.

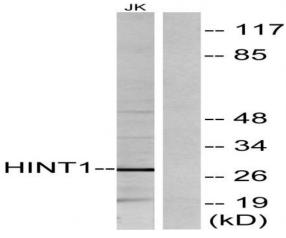
## **Products Images**



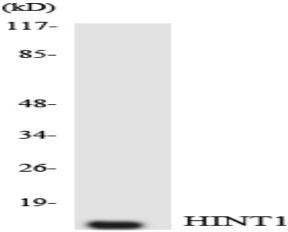
Immunohistochemical analysis of paraffin-embedded Human prostate cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of HeLa cells, using HINT1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using HINT1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HepG2 cells using HINT1 antibody.