

## Product Information

**Size:**

50ul

**Reactivity:**

Human, Mouse

**Source:**

Rabbit

**Isotype:**

IgG

**Applications:**

ELISA, IHC

**Recommended dilutions:**

ELISA:1:2000-1:5000, IHC:1:25-1:100

**Protein Background:**

Serine/threonine protein kinase that acts as key mediator of the nitric oxide (NO)/cGMP signaling pathway. GMP binding activates PRKG1, which phosphorylates serines and threonines on many cellular proteins. Numerous protein targets for PRKG1 phosphorylation are implicated in modulating cellular calcium, but the contribution of each of these targets may vary substantially among cell types. Proteins that are phosphorylated by PRKG1 regulate platelet activation and adhesion, smooth muscle contraction, cardiac function, gene expression, feedback of the NO-signaling pathway, and other processes involved in several aspects of the CNS like axon guidance, hippocampal and cerebellar learning, circadian rhythm and nociception. Smooth muscle relaxation is mediated through lowering of intracellular free calcium, by desensitization of contractile proteins to calcium, and by decrease in the contractile state of smooth muscle or in platelet activation.

**Gene ID:**

HID1

**Uniprot**

Q8IV36

**Synonyms:**

HID1 domain containing

**Immunogen:**

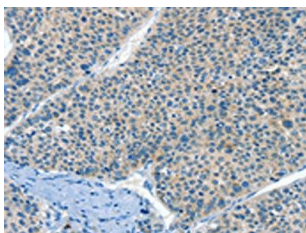
Synthetic peptide of human HID1.

**Storage:**

-20°C; C, pH7.4 PBS, 0.05% NaN<sub>3</sub>, 40% Glycerol

## Product Images

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The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using PACO19503(HID1 Antibody) at dilution 1/50, on the right is treated with synthetic peptide. (Original magnification: x—200).