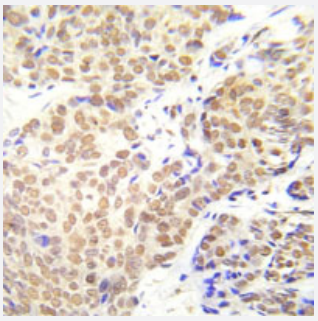
HDAC1 (phospho S421/S423) polyclonal antibody

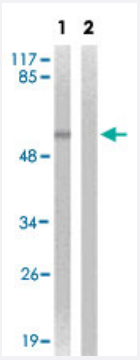
Catalog # PAB16973 Size 100 ug

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC1 (phospho Ser421/423) polyclonal antibody (Cat # PAB16973).



Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells.
Lane 1 : HDAC1 (phospho Ser421/423) polyclonal antibody (Cat # PAB16973).
Lane 2 : Using the same antibody preincubated with synthesized peptide.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of HDAC1.
Immunogen	Synthetic phosphopeptide corresponding to residues surrounding S421/S423 of human HDAC1.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Form	Liquid

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Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:4000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 20 mM PBS, 0.15 M NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C for three months. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

  Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC1 (phospho Ser421/423) polyclonal antibody (Cat # PAB16973).

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Cell lysate)

  Western blot analysis of extracts from HeLa cells.
  Lane 1 : HDAC1 (phospho Ser421/423) polyclonal antibody (Cat # PAB16973).
  Lane 2 : Using the same antibody preincubated with synthesized peptide.

Gene Info — HDAC1

Entrez GeneID	3065
Protein Accession#	Q13547
Gene Name	HDAC1
Gene Alias	DKFZp686H12203, GON-10, HD1, RPD3, RPD3L1
Gene Description	histone deacetylase 1
Omim ID	601241
Gene Ontology	Hyperlink

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Gene Summary	Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histon e deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also in teracts with retinoblastoma tumor-suppressor protein and this complex is a key element in the con trol of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deac etylates p53 and modulates its effect on cell growth and apoptosis. [provided by RefSeq
Other Designations	OTTHUMP00000008745|reduced potassium dependency, yeast homolog-like 1

Publication Reference

- The subcellular distribution of HDAC1 in neurotoxic conditions is dependent on serine phosphorylation.

  Zhu Y, Vidaurre OG, Adula KP, Kezunovic N, Wentling M, Huntley GW, Casaccia P.

  Journal of Neuroscience 2017 Jun; 37(31):7547.

  Application: WB-Tr, WB-Ti, Human, Rat, HEK 293 cells, Rat hippocampal neurons

Pathway

- Cell cycle
- Chronic myeloid leukemia
- Notch signaling pathway
- Pathways in cancer

Disease

- Asthma
- Cognition Disorders
- Genetic Predisposition to Disease
- Huntington disease
- Mental Status Schedule
- Neoplasms
- Ovarian cancer
- Ovarian Neoplasms

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- Tobacco Use Disorder

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