

# HDAC3 Antibody

Mouse Monoclonal Antibody to HDAC3  
Catalog # AO1206b

## Product Information

---

<b>Application</b>	WB, IHC, E
<b>Primary Accession</b>	<a href="#">O15379</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Clone Names</b>	3A7B5
<b>Isotype</b>	Mouse IgG1
<b>Calculated MW</b>	48848 Da
<b>Description</b>	HDAC3: histone deacetylase 3, also known as HD3, RPD3, RPD3-2. Entrez Protein NC_000005. Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene.
<b>Immunogen</b>	Purified recombinant fragment of HDAC3(aa224-428) expressed in E. Coli.

## Additional Information

---

<b>Other Names</b>	Histone deacetylase 3, HD3, RPD3-2, SMAP45, HDAC3
<b>Target/Specificity</b>	Purified recombinant fragment of HDAC3(aa224-428) expressed in E. Coli.
<b>Dilution</b>	WB~~1:500~~2000 IHC~~1:200~~1000 E~~N/A
<b>Format</b>	Ascitic fluid containing 0.03% sodium azide.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	HDAC3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

---

## References

---

1. Folia Biol (Praha). 2006;52(1-2):21-33.
2. Mol Cell Biol. 2007 Feb;27(4):1280-95.
3. Mol Carcinog. 2008 Feb;47(2):137-47.

## Images

---

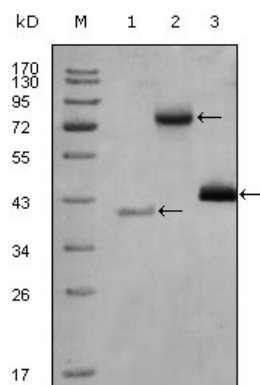


Figure 1: Western blot analysis using HDAC3 mouse mAb against truncated Trx-HDAC3 recombinant protein (1), full length HDAC3-hIgGfc (aa1-428) transfected CHO-K1 cell lysate(2) and HeLa cell lysate (3).

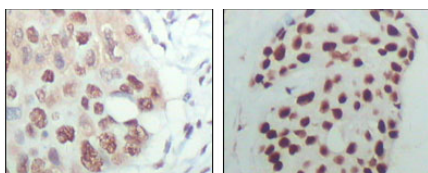


Figure 2: Immunohistochemical analysis of paraffin-embedded human esophagus cancer (left) and breast carcinoma tissue (right), showing nuclear localization with DAB staining using HDAC3 mouse mAb.

## Citations

---

- [Class I HDACs are mediators of smoke carcinogen-induced stabilization of DNMT1 and serve as promising targets for chemoprevention of lung cancer.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.