

## Product datasheet for **TA322692**

### HDAC1 Rabbit Polyclonal Antibody

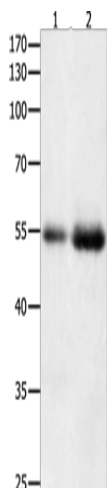
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Human colon and kidney cancer tissue IHC: 25-100 Positive control: Human tonsil Predicted cell location: Cytoplasm, Nucleus
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 469-482 amino acids of Human histone deacetylase 1
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	55 kDa
Gene Name:	histone deacetylase 1
Database Link:	<a href="#">NP_004955</a> <a href="#">Entrez Gene 297893 Rat</a> <a href="#">Entrez Gene 433759 Mouse</a> <a href="#">Entrez Gene 3065 Human</a> <a href="#">Q13547</a>

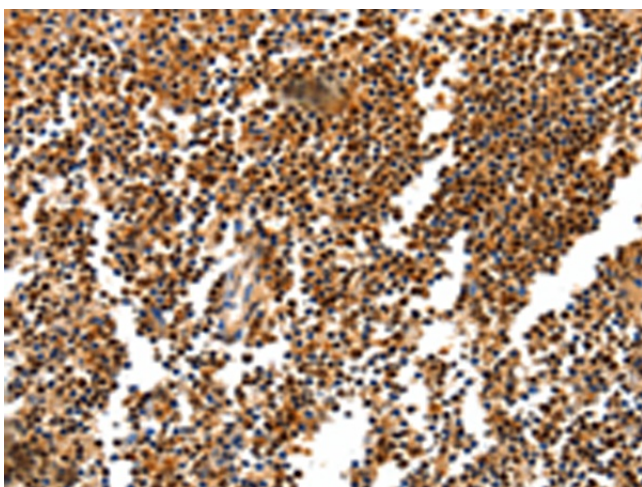


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<b>Background:</b>	Histone acetylation and deacetylation; catalyzed by multisubunit complexes; play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2; it deacetylates p53 and modulates its effect on cell growth and apoptosis.
<b>Synonyms:</b>	GON-10; HD1; RPD3; RPD3L1
<b>Protein Families:</b>	Adult stem cells, Druggable Genome, Stem cell - Pluripotency, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors
<b>Protein Pathways:</b>	Cell cycle, Chronic myeloid leukemia, Huntington's disease, Notch signaling pathway, Pathways in cancer

**Product images:**

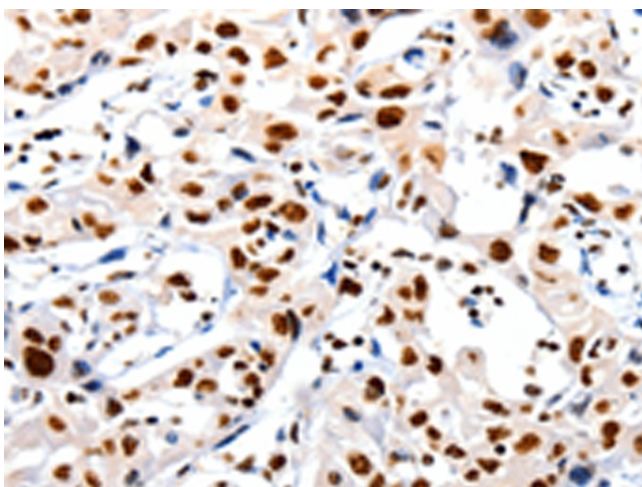
Gel: 10%SDS-PAGE  
Lysate: 40 µg  
Lane 1-2: Human colon tissue  
Human kidney cancer tissue  
Primary antibody: TA322692 (HDAC1 Antibody) at dilution 1/400  
Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
Exposure time: 2 minutes



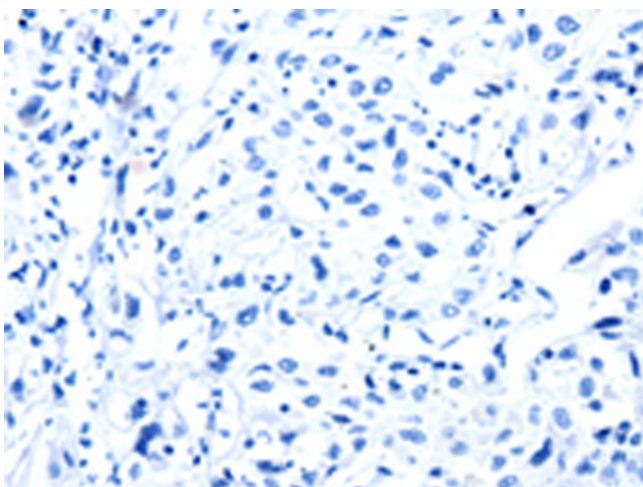
Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA322692 (HDAC1 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human tonsil tissue using TA322692 (HDAC1 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA322692 (HDAC1 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA322692 (HDAC1 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification: ×200)