

SMAP45 rabbit pAb**Cat#: orb766340 (Manual)**

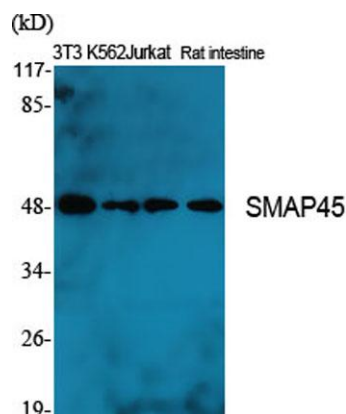
For research use only. Not intended for diagnostic use.

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|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name | SMAP45 rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat;Monkey |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human HDAC3. AA range:379-428 |
| Specificity | SMAP45 Polyclonal Antibody detects endogenous levels of SMAP45 protein. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Histone deacetylase 3 |
| Gene Name | HDAC3 |
| Cellular localization | Nucleus . Cytoplasm . Cytoplasm, cytosol . Colocalizes with XBP1 and AKT1 in the cytoplasm (PubMed:25190803). Predominantly expressed in the nucleus in the presence of CCAR2 (PubMed:21030595). . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

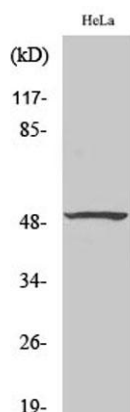
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|--------------------------------|---------------------------------------------------|
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 50kD |
| Human Gene ID | 8841 |
| Human Swiss-Prot Number | O15379 |
| Alternative Names | HDAC3; Histone deacetylase 3; HD3; RPD3-2; SMAP45 |

Background

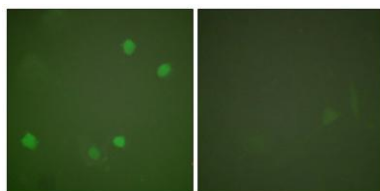
Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. 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. [provided by RefSeq, Jul 2008],



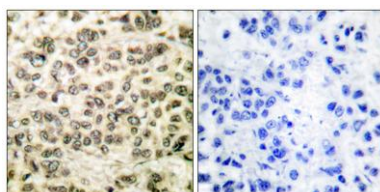
Western Blot analysis of various cells using SMAP45 Polyclonal Antibody diluted at 1:2000



Western Blot analysis of HepG2 cells using SMAP45 Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of COS7 cells, using HDAC3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using HDAC3 Antibody. The picture on the right is blocked with the synthesized peptide.