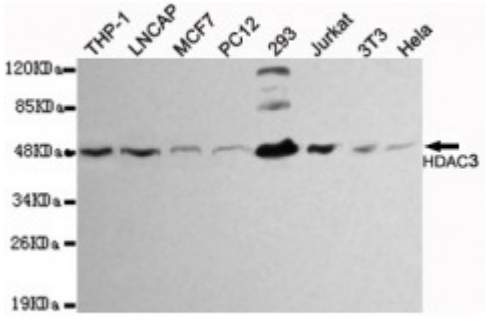
Anti-HDAC3 antibody



Description	Mouse monoclonal to HDAC3.

Model	STJ99157
Host	Mouse
Reactivity	Human, Mouse, Rat
Applications	ELISA, WB
Immunogen	Purified recombinant human HDAC3 protein fragments expressed in E.coli.
Gene ID	8841
Gene Symbol	HDAC3
Dilution range	WB 1:500-2000ELISA 1:10000-20000
Specificity	This antibody detects endogenous levels of HDAC3 and does not cross-react with related proteins.
Tissue Specificity	Widely expressed.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clone ID	3G3-H6-H10
Note	For Research Use Only (RUO).
Protein Name	Histone deacetylase 3 HD3 RPD3-2 SMAP45
Molecular Weight	49kDa
Clonality	Monoclonal

Conjugation	Unconjugated
Isotype	IgG1
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:4854OMIM:605166
Alternative Names	Histone deacetylase 3 HD3 RPD3-2 SMAP45
Function	Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4), and some other non-histone substrates. Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Participates in the BCL6 transcriptional repressor activity by deacetylating the H3 'Lys-27' (H3K27) on enhancer elements, antagonizing EP300 acetyltransferase activity and repressing proximal gene expression. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation . Contributes, together with XBP1 isoform 1, to the activation of NFE2L2-mediated HMOX1 transcription factor gene expression in a PI(3)K/mTORC2/Akt-dependent signaling pathway leading to endothelial cell (EC) survival under disturbed flow/oxidative stress .
Cellular Localization	Nucleus Cytoplasm Cytoplasm, cytosol. Colocalizes with XBP1 and AKT1 in the cytoplasm . Predominantly expressed in the nucleus in the presence of CCAR2.
Post-translational Modifications	Sumoylated in vitro.