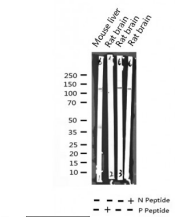
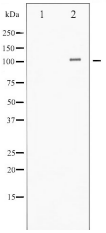
Phospho-HDAC4 (Ser632) Ab

Cat.#: AF3349	Concn.: 1mg/ml	Mol.Wt.: 119kDa
Size: 100ul,200ul	Source: Rabbit	Clonality: Polyclonal

Application:	WB 1:500-1:2000, IF/ICC 1:100-1:500
Reactivity:	Human,Mouse,Rat
Purification:	The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Specificity:	Phospho-HDAC4 (Ser632) Ab detects endogenous levels of HDAC4 only when phosphorylated at Serine 632.
Immunogen:	A synthesized peptide derived from human HDAC4 around the phosphorylation site of Serine 632.
Uniprot:	P56524
Description:	HDAC4 a transcriptional regulator of the histone deacetylase family, subfamily 2. Deacetylates lysine residues on the N-terminal part of the core histones H2A, H2B, H3 AND H4.
Subcellular Location:	Nucleus. Cytoplasm. Shuttles between the nucleus and the cytoplasm. Upon muscle cells differentiation, it accumulates in the nuclei of myotubes, suggesting a positive role of nuclear HDAC4 in muscle differentiation. The export to cytoplasm depends on the interaction with a 14-3-3 chaperone protein and is due to its phosphorylation at Ser-246, Ser-467 and Ser-632 by CaMK4. The nuclear localization probably depends on sumoylation.
Tissue Specificity:	Ubiquitous.
Similarity:	The nuclear export sequence mediates the shuttling between the nucleus and the cytoplasm.The PxLPxI/L motif mediates interaction with ankyrin repeats of ANKRA2.Belongs to the histone deacetylase family. HD type 2 subfamily.
Storage Condition and Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt.



Western blot analysis of Phospho-HDAC4 (Ser632) expression in various lysates



Western blot analysis of HDAC4 phosphorylation expression in CalyculinA treated Jurkat whole cell lysates,The lane on the left is treated with the antigen-specific peptide.

AF3349 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary Ab was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary Ab.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.