

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human HDAC8 in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human HDAC8 isoform 1 Met1-Val377 (Leu31Pro) Accession # Q9BY41
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Chromatin Immunoprecipitation (ChIP)	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HDAC8 (Histone deacetylase 8) is a 50 kDa member of the class I subfamily, histone deacetylase family of transcriptional regulators. It is a smooth muscle enzyme that deacetylates histone lysines, blocking gene transcription. HDAC8 appears to function as a monomer, and phosphorylation at Ser39 inhibits activity. Human HDAC8 is 377 amino acids (aa) in length. It contains a series of α helices and strands, plus a catalytic ferrous ion binding site (Asp178-His180-Asp267). There are four potential splice variants, all of which possess an alternate start site 38 aa upstream of the standard start site. Three have additional changes; two show a one and three aa substitution respectively for aa 211-377, while a third has a 15 aa substitution for aa 148-377. Human HDAC8 shares more than 96% aa identity with both mouse and canine HDAC8.

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