Histone H3(Phospho-Thr11) Antibody

Catalog No: #11577

Package Size: #11577-1 50ul #11577-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

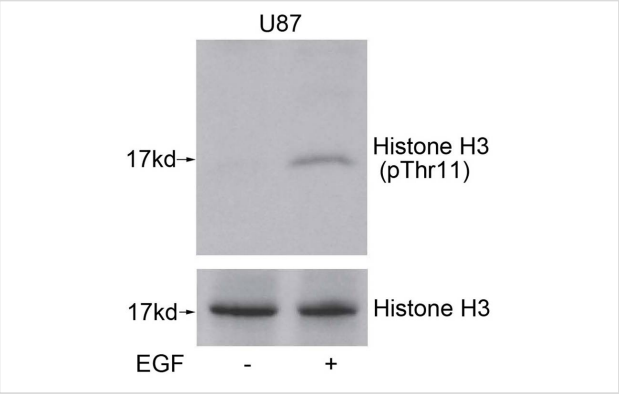
Product Name	Histone H3(Phospho-Thr11) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of Histone H3 only when phosphorylated at threonine 11.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 11(K-S-T(p)-G-G) derived from Human Histone H3.
Target Name	Histone H3
Modification	Phospho
Other Names	H3/a H3/m H3.3A; H3/c H3/o H3F3B; H3/d; H3/f; H3/h
Accession No.	Swiss-Prot: P68431, Q71DI3, P84243NCBI Protein: NP_003521.2 NP_066403.2 NP_002098.1
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

Application Details

Predicted MW: 17kd

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from U87 cells untreated or treated with EGF using Histone H3(Phospho-Thr11) Antibody #11577.

Background

Core component of nucleosome. Nucleosomes wrap and compact DNA into chromatin, limiting DNA accessibility to the cellular machineries which require DNA as a template. Histones thereby play a central role in transcription regulation, DNA repair, DNA replication and chromosomal stability. DNA accessibility is regulated via a complex set of post-translational modifications of histones, also called histone code, and nucleosome remodeling.
Preuss U., Landsberg G., Scheidtmann K.H.
Nucleic Acids Res. 31:878-885(2003)
Shimada M., Niida H., Zineldeen D.H., Tagami H., Tanaka M., Saito H., Nakanishi M.Cell 132:221-232(2008)
Metzger E., Yin N., Wissmann M., Kunowska N., Fischer K., Friedrichs N., Patnaik D., Higgins J.M., Potier N., Scheidtmann K.H., Buettner R., Schule R.Nat. Cell Biol. 10:53-60(2008)

Published Papers

el at., RNF8 Mediates Histone H3 Ubiquitylation and Promotes Glycolysis and Tumorigenesis.In J Exp Med on 2017 Jun 5 by Yan Xia , Weiwei Yang,et al..PMID: 28507061, , (2017)

PMID:28507061

el at., PKM2 Phosphorylates Histone H3 and Promotes Gene Transcription and Tumorigenesis. In Cell on 2012 Aug 17 by Weiwei Yang, Yan Xia, et al..PMID: 22901803, , (2012)

PMID:22901803

Note: This product is for in vitro research use only and is not intended for use in humans or animals.