HistoneH3.1(Phospho-Thr11) Antibody

#11577

Catalog Number: 11577-1, 11577-2

Amount: 50μg/50μl, 100μg/100μl

Swiss-Prot No. :P68431

Form of Antibody: Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl,0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20℃/1 year

Immunogen: The antiserum was produced against synthesized phosphopeptide derived from human Histone H3.1 around the phosphorylation site of Thr11

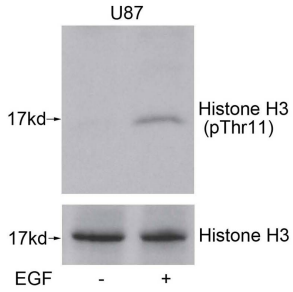
Purification: The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

Specificity/Sensitivity: Histone H3.1 (phospho-Thr11) antibody detects endogenous levels of Histone H3.1 only when phosphorylated at Thr 11.

Reactivity: Human,Mouse,Rat

Applications:

Predicted MW: 17 kd WB: 1:500~1:1000



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

References：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)