SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-YY1 antibody

Catalog Number: SL1415R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	YY1
Immunogen:	KLH conjugated synthetic peptide derived from human YY1: 301-414/414
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human)
Predicted MW.:	46kDa
Subcellular Location:	The nucleus
Background:	YY1 is a ubiquitously distributed transcription factor belonging to the GLI Kruppel class of zinc finger proteins. The protein is involved in repressing and activating a diverse number of promoters. YY1 may direct histone deacetylases and histone acetyltransferases to a promoter in order to activate or repress the promoter, thus implicating histone modification in the function of YY1. **Function:** Multifunctional transcription factor that exhibits positive and negative control on a large number of cellular and viral genes by binding to sites overlapping the transcription start site. Binds to the consensus sequence 5'-CCGCCATNTT-3'; some genes have been shown to contain a longer binding motif allowing enhanced binding; the initial CG dinucleotide can be methylated greatly reducing the binding affinity. The effect on transcription regulation is depending upon the context in which it binds and diverse

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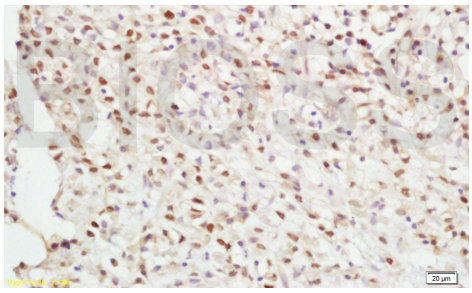
	mechanisms of action include direct activation or repression, indirect activation or repression via cofactor recruitment, or activation or repression by disruption of binding sites or conformational DNA changes. Its activity is regulated by transcription factors and cytoplasmic proteins that have been shown to abrogate or completely inhibit YY1-mediated activation or repression. For example, it acts as a repressor in absence of adenovirus E1A protein but as an activator in its presence. May play an important role in development and differentiation. Proposed to recruit the PRC2/EED-EZH2 complex to target genes that are transcriptional repressed. Involved in DNA repair. In vitro, binds to DNA recombination intermediate structures (Holliday junctions). Proposed core component of the chromatin remodeling INO80 complex which is involved in transcriptional regulation, DNA replication and probably DNA repair; proposed to target the INO80 complex to YY1-responsive elements. **Subunit:** Interacts with YAF2 through the region encompassing the first and second zinc fingers. Component of the chromatin remodeling INO80 complex; specifically part of a complex module associated with the DBINO domain of INO80. Interacts with EED and EZH2; the interactions are indicative for an association with the PRC2/EED-EZH2 complex. **Subcellular Location:** Nucleus matrix. Note=Associated with the nuclear matrix. **Post-translational modifications:** Transiently poly-ADP-ribosylated by PARP1 upon DNA damage, with the effect of decreasing affinity of YY1 to its cognate DNA binding sites. **Similarity:** Belongs to the YY transcription factor family. Contains 4 C2H2-type zinc fingers. **Database links:** **Entrez Gene:** 7528 Human **Entrez Gene:** 22632 Mouse **Entrez Gene:** 24919 Rat Omim: 600013 Human **SwissProt:** P25490 Human **SwissProt:** Q00899 Mouse **Unigene:** 388927 Human **Unigene:** 3868 Mouse **Unigene:** 458511 Mouse **Unigene:** 95861 Rat transcriptional regulatory factor（Transcriptin Regulators）YY1（YY1 transcription factor）Cell transcriptional regulatory factor, YY1 is a widely present transcription factor belonging to the GLI-Kruppel class of Zinc finger

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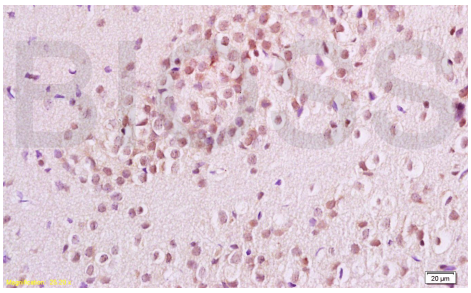
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	protein, and can inhibit and activate various promoters.

[VALIDATION IMAGES]



Tissue/cell: human gastric carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (Mouse,Rat(predicted:Human)1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-YY1 Polyclonal Antibody, Unconjugated(SL1415R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (Mouse,Rat(predicted:Human)1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-YY1 Polyclonal Antibody, Unconjugated(SL1415R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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