

Rabbit YY1 Polyclonal Antibody | anti-YY1 antibody

Phospho-YY1 (Ser365) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329280	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

YY1; Polyclonal Antibody; Phospho-YY1 (Ser365) Antibody; CF1; Delta; Delta transcription factor; INO80 complex subunit S; INO80S; NF E1; NF-E1; NFE1; OTTHUMP00000197459; Transcriptional repressor protein YY1; TYY1_HUMAN; UCR motif DNA binding protein; UCRBP; Yin and yang 1; Yin and Yang 1 protein; Yin Yang 1; Ying Yang 1; YY 1; YY 1 transcription factor; YY-1; YY1 transcription factor; anti-YY1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-YY1 (Ser365) Antibody detects endogenous levels of YY1 only when phosphorylated at Ser365.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-YY1 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human YY1 around the phosphorylation site of Ser365.
Conjugation	Unconjugated
Fragment	Fab fragment
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. Ubiquitinated.
Subunit Structure	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. Interacts with SFMBT2. Found in a complex with SMAD1 and SMAD4. Found in a complex with YY1, SIN3A and HDAC1 (By similarity).
Similarity	Belongs to the YY transcription factor family.
Subcellular Location	Nucleus matrix. Note: Associated with the nuclear matrix.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



Application Data

At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI (blue).



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WB (Western Blot)

Western blot analysis of extracts from Rat muscle, using Phospho-YY1 (Ser365) Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from Rat heart, using Phospho-YY1 (Ser365) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-YY1 antibody

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 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. Acts synergistically with the SMAD1 and SMAD4 in bone morphogenetic protein (BMP)-mediated cardiac-specific gene expression. Binds to SMAD binding elements (SBEs) (5'-GTCT/AGAC-3') within BMP response element (BMPRE) of cardiac activating regions. 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). Plays a role in regulating enhancer activation. 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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	459683878
NCBI GeneID	7528
NCBI Accession #	NP_003394.1
NCBI GenBank Nucleotide #	NM_003403
UniProt Accession #	P25490; Q14935
Molecular Weight	44,713 Da
NCBI Official Full Name	Homo sapiens YY1 transcription factor (YY1), mRNA
NCBI Official Synonym Full Names	YY1 transcription factor
NCBI Official Symbol	YY1
NCBI Official Synonym Symbols	DELTA; NF-E1; UCRBP; INO80S; YIN-YANG-1
NCBI Protein Information	transcriptional repressor protein YY1; INO80 complex subunit S; YY-1; Yin and Yang 1 protein; delta transcription factor

UniProt Protein Name	Transcriptional repressor protein YY1
UniProt Gene Name	YY1
UniProt Synonym Gene Names	INO80S; YY-1
UniProt Entry Name	TTY1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/yy1-antibody-peptide-elisa-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/329280>