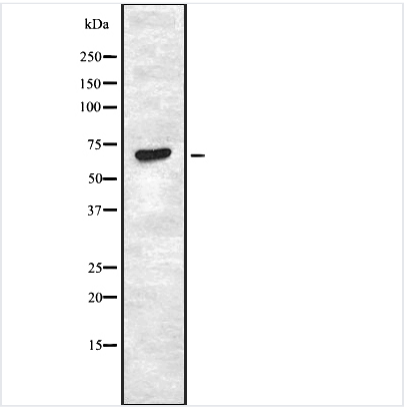
# YY1 Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | YY1, Polyclonal Antibody |
| **Full Product Name** | YY1 Antibody |
| **Product Gene Name** | anti-YY1 antibody |
| **Product Synonym Names** | 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; YY1 transcription factor |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human, Mouse, Rat |
| **Form/Format** | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Purity/Purification** | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin. |
| **Concentration** | 1mg/ml (lot specific) |
| **Specificity** | YY1 antibody detects endogenous levels of total YY1 |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |
| **Antibody/Peptide Pairs** | YY1 peptide (MBS9627249) is used for blocking the activity of YY1 antibody (MBS9608537) |
| **Molecular Weight** | Observed: 68 kDa<br>Predicted: 45 kDa |
| **3D Structure** | ModBase 3D Structure for P25490 |
| **Supply Chain Verification** | Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire. |
| **Immunogen** | A synthesized peptide derived from human YY1 |
| **Subcellular Location** | Nucleus Matrix. Associated with the nuclear matrix. |
| **Predicted Cross Reactivity** | **Pig, Bovine, Sheep, Dog** |
| **Similarity** | Pig (100%), Bovine (100%), Sheep (100%), Dog (100%) |
| **Conjugation** | Unconjugated |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for anti-YY1 antibody** | Western Blot (WB), ELISA (EIA) |
| **Application Notes for anti-YY1 antibody** | WB: 1:1000-3000 |

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| **Related Product Information for anti-YY1 antibody** | 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 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 (PubMed:15329343). 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 (PubMed:28575647).<br>Subunit Structure: Interacts with YAF2 through the region encompassing the first and second zinc fingers (PubMed:9016636). Component of the chromatin remodeling INO80 complex; specifically part of a complex module associated with the DBINO domain of INO80 (PubMed:17721549, PubMed:18026119, PubMed:18922472, PubMed:21303910). Interacts with EED and EZH2; the interactions are indicative for an association with the PRC2/EED-EZH2 complex (PubMed:11158321). Interacts with SFMBT2 (PubMed:23385818). Found in a complex with SMAD1 and SMAD4 (PubMed:15329343). Found in a complex with YY1, SIN3A and HDAC1 (By similarity).<br>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.<br>Similarity: Belongs to the YY transcription factor family. |
| **Other Notes** | Small volumes of anti-YY1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for YY1 purchase** | MBS9608537 is an antibody targeting YY1. Also known as YY1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. |




**Western Blot (WB) of anti-YY1 antibody**
Western blot analysis of YY1 using HT29 whole cell lysates

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for YY1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4507955 |
| **NCBI GeneID** | 7528 |
| **NCBI Accession #** | NP_003394.1 |
| **UniProt Primary Accession #** | P25490 |
| **UniProt Secondary Accession #** | Q14935 |
| **UniProt Related Accession #** | P25490 |

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| **GenBank Nucleotide #** | NM_003403.4 |
| **NCBI Official Full Name** | transcriptional repressor protein YY1 |
| **NCBI Official Synonym Full Names** | YY1 transcription factor |
| **NCBI Official Symbol** | YY1 |
| **NCBI Official Synonym Symbols** | DELTA; NF-E1; UCRBP; GADEVS; INO80S; YIN-YANG-1 |
| **UniProt Protein Name** | Transcriptional repressor protein YY1 |
| **UniProt Synonym Protein Names** | Delta transcription factor; INO80 complex subunit S; NF-E1; Yin and yang 1; YY-1 |
| **Protein Family** | Transcriptional repressor protein |
| **UniProt Gene Name** | YY1 |
| **UniProt Synonym Gene Names** | INO80S; YY-1 |
| **NCBI Protein Information** | transcriptional repressor protein YY1 |
| **NCBI Summary for YY1** | 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. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for YY1** | 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 (PubMed:15329343). 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 (PubMed:28575647). |
| **Research Articles on YY1** | **1.** The repression of TBX21 expression by high-affinity binding of YY1 to the -1993C allele may contribute to a decreased development of AIH-1 via suppression of type 1 immunity. |
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