

YY1 Rabbit mAb

Catalog No: #52663

Package Size: #52663-1 50ul #52663-2 100ul

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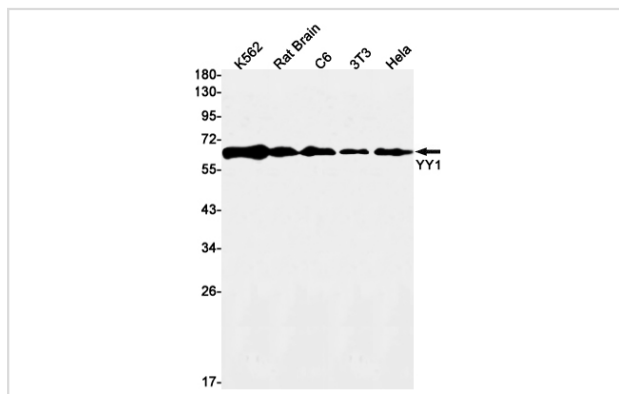
Description

Product Name	YY1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S02-8A3
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB
Species Reactivity	Human,Mouse,Rat
Immunogen Description	A synthetic peptide of human YY1
Conjugates	Unconjugated
Modification	Unmodification
Other Names	DELTA; NF-E1; UCRBP; GADEV5; INO80S; YIN-YANG-1
Accession No.	Swiss-Prot:P25490GeneID:7528
Calculated MW	Calculated MW: 45 kDa; Observed MW: 65 kDa
Formulation	50nM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Application Details

WB: 1/2000;

Images



Western blot detection of YY1 in K562,Rat Brain,C6,3T3,HeLa cell lysates using YY1 Rabbit mAb(1:1000 diluted).Predicted band size:45kDa.Observed band size:65kDa.

Background

Swiss-Prot Acc.P25490.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).

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