

YY1 Rabbit mAb

Catalog # AP76272

Product Information

Application	WB, IP
Primary Accession	P25490
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	44713

Additional Information

Gene ID	7528
Other Names	YY1
Dilution	WB~~1/500-1/1000 IP~~N/A
Format	Liquid

Protein Information

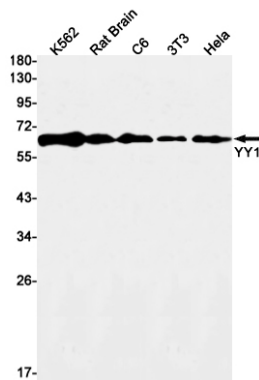
Name	YY1
Synonyms	INO80S
Function	<p>Multifunctional transcription factor that exhibits positive and negative control on a large number of cellular and viral genes by binding to sites overlapping the transcription start site (PubMed:15329343, PubMed:17721549, PubMed:24326773, PubMed:25787250). Binds 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 (PubMed:15329343, PubMed:17721549, PubMed:24326773, PubMed:25787250). 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 (PubMed:15329343, PubMed:17721549, PubMed:24326773, PubMed:25787250). Its activity is regulated by transcription factors and cytoplasmic proteins that have been shown to abrogate or completely inhibit YY1- mediated activation or repression (PubMed:15329343, PubMed:17721549, PubMed:24326773, PubMed:25787250). For example, it acts as a repressor in absence of adenovirus E1A protein but as an activator in its presence (PubMed:1655281). Acts synergistically with the SMAD1 and SMAD4 in bone morphogenetic</p>

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 (PubMed:[15329343](#)). May play an important role in development and differentiation. Proposed to recruit the PRC2/EED-EZH2 complex to target genes that are transcriptional repressed (PubMed:[11158321](#)). Involved in DNA repair (PubMed:[18026119](#), PubMed:[28575647](#)). In vitro, binds to DNA recombination intermediate structures (Holliday junctions). Plays a role in regulating enhancer activation (PubMed:[28575647](#)). Recruits the PR-DUB complex to specific gene-regulatory regions (PubMed:[20805357](#)).

Cellular Location

Nucleus matrix Note=Associated with the nuclear matrix.

Images



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