

anti- YY1 antibody

Product Information

Catalog No.:	FNab10027
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months (Avoid repeated freeze / thaw cycles.)

Background

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). 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.

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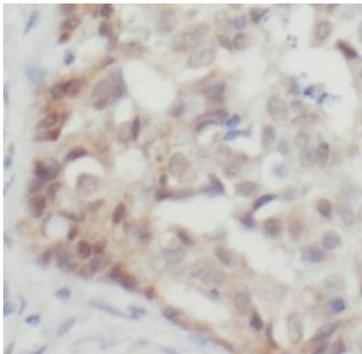
Immunogen information

Immunogen: YY1 transcription factor
Synonyms: DELTA, Delta transcription factor, INO80 complex subunit S, INO80S, NF E1, UCRBP, Yin and yang 1, YIN YANG 1, YY 1, YY1, YY1 transcription factor
Observed MW: 60 kDa, 75 kDa
Uniprot ID : P25490

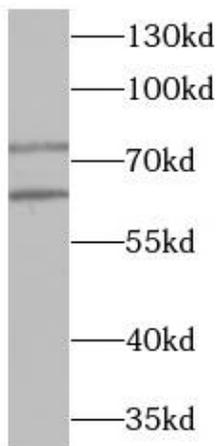
Application

Reactivity: Human, Mouse, Rat, Rabbit, pig, monkey, zebrafish, hamster
Tested Application: ELISA, WB, IHC
Recommended dilution: WB: 1:500-1:2000; IHC: 1:50-1:500

Image:



Immunohistochemistry of paraffin-embedded human breast cancer using FNab10027(YY1 antibody) at dilution of 1:100



A549 cells were subjected to SDS PAGE followed by western blot with FNab10027(YY1 antibody) at dilution of 1:1000

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