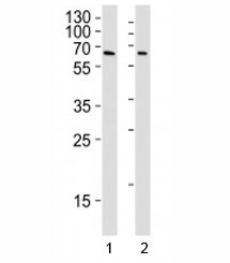
YY1 Antibody [clone 1183CT6.5.23.6] (F52352)

Catalog No.	Formulation	Size
F52352-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52352-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a
Clone Name	1183CT6.5.23.6
Purity	Purified
UniProt	P25490
Applications	Western Blot : 1:1000
Limitations	This YY1 antibody is available for research use only.



YY1 antibody western blot analysis in Daudi and U251 lysate. Predicted molecular weight 68/40 kDa.

Description

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. 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.

Application Notes

Titration of the YY1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Purified His-tagged protein was used to produced this monoclonal YY1 antibody.

Storage

Aliquot the YY1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

References (1)