

Datasheet for ABIN4915222  
**anti-YY1 antibody**



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1 Image

## Overview

Quantity:	100 µL
Target:	YY1
Reactivity:	Human, Rat, Monkey
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This YY1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS)

## Product Details

Immunogen:	Purified His-tagged YY1 protein was used to produced this monoclonal antibody.
Clone:	3C6
Isotype:	IgG2a
Cross-Reactivity:	Human, Monkey, Rat
Purification:	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.

## Target Details

Target:	YY1
Alternative Name:	YY1 ( <a href="#">YY1 Products</a> )

## Target Details

Background:	<p>Synonyms: DELTA, NF-E1, UCRBP, INO80S, YIN-YANG-1, Transcriptional repressor protein YY1, Delta transcription factor, INO80 complex subunit S, Yin and yang 1, YY-1, YY1</p> <p>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.</p>
Gene ID:	7528
UniProt:	<a href="#">P25490</a>

## Application Details

Application Notes:	WB 1:300-5000 FCM 1:20-100 IHC-P 1:200-400
Restrictions:	For Research Use only

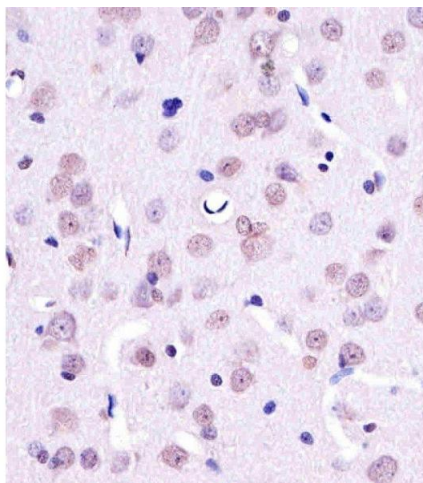
## Handling

Format:	Liquid
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## Handling

Concentration:	0.5 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C for 12 months.
Expiry Date:	12 months

## Images



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Paraformaldehyde-fixed, paraffin embedded Rat brain tissue, Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min, Block endogenous peroxidase by 3% hydrogen peroxide for 15 minutes, Blocking buffer (3% BSA) at room temperature for 30min, Antibody incubation with YY1 (1183CT6.5.23.6) Monoclonal Antibody (bsm-51412M) at 1:25 for 1 hour at 37°C, followed by a conjugated secondary antibody for 20 minutes and DAB staining.