

Datasheet for ABIN1882292

anti-YY1 antibody

4 Images

4 Publications

[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	YY1
Reactivity:	Human, Rat, Zebrafish (Danio rerio), Cynomolgus
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This YY1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Purified His-tagged YY1 protein was used to produced this monoclonal antibody.
Clone:	1183CT6-5-23-6
Isotype:	IgG2a
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	YY1
Alternative Name:	YY1 (YY1 Products)
Background:	<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.</p> <p>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</p>

Target Details

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.

Molecular Weight:	44713
-------------------	-------

NCBI Accession:	NP_003394
-----------------	---------------------------

UniProt:	P25490
----------	------------------------

Application Details

Application Notes:	WB: 1:500-1:1000. WB: 1:1000. IHC-P: 1:25. IHC-P: 1:25. IHC-P: 1:25
--------------------	---

Restrictions:	For Research Use only
---------------	-----------------------

Handling

Format:	Liquid
---------	--------

Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
---------	--

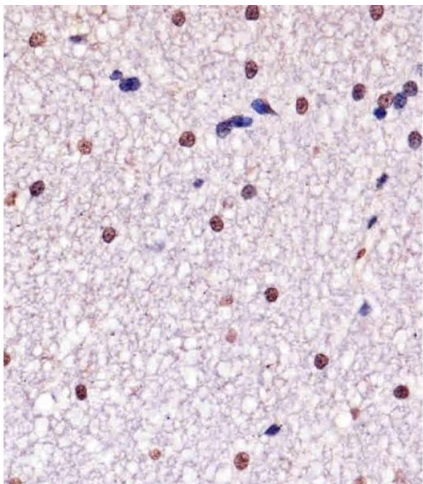
Preservative:	Sodium azide
---------------	--------------

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
--------------------	--

Storage:	4 °C,-20 °C
----------	-------------

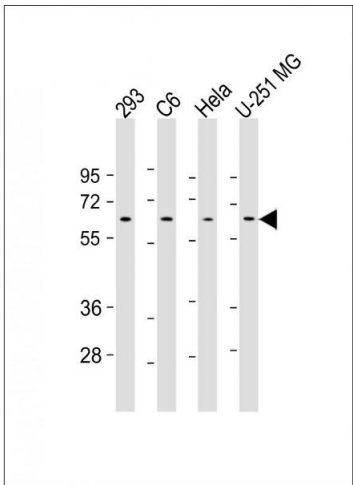
Expiry Date:	6 months
--------------	----------

Product cited in: Hirakawa, Nakayama, Shibata, Sekine: "Association of cellular localization of glycogen synthase kinase 3beta in the digestive tract with cancer development." in: **Oncology reports**, Vol. 22, Issue 3, pp. 481-5, (2009) ([PubMed](#)).



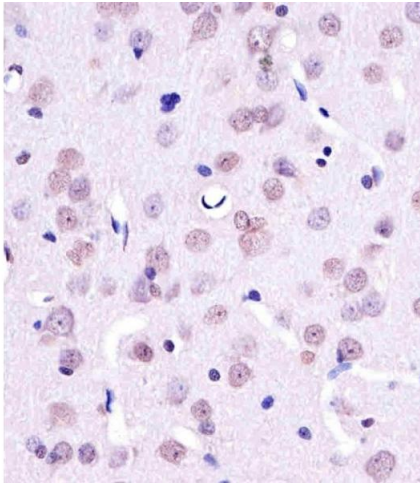
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. A staining YY1 in Monkey brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hours at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.



Western Blotting

Image 2. All lanes : Anti-YY1 Antibody (Center) at 1:500-1:1000 dilution Lane 1: 293 whole cell lysate Lane 2: C6 whole cell lysate Lane 3: HeLa whole cell lysate Lane 4: U-251 MG whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. A staining YY1 in Rat brain tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 3 % BSA for 0.5 hour at room temperature, antigen retrieval was by heat mediation with a citrate buffer (pH 6). Samples were incubated with primary antibody (1/25) for 1 hour at 37 °C. A undiluted biotinylated goat polyvalent antibody was used as the secondary antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN1882292.