

Datasheet for ABIN747683  
**anti-REST antibody (AA 401-450)**

6 Images

3 Publications

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## Overview

Quantity:	100 µL
Target:	REST
Binding Specificity:	AA 401-450
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This REST antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human NRSF
Isotype:	IgG
Specificity:	KO-Validated
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Cow,Pig,Horse,Chicken,Rabbit
Purification:	Purified by Protein A.

## Target Details

Target:	REST
Alternative Name:	NRSF/REST ( <a href="#">REST Products</a> )
Background:	<p>Synonyms: XBR, NRSF, RE1-silencing transcription factor, Neural-restrictive silencer factor, X2 box repressor, REST</p> <p>Background: Transcriptional repressor which binds neuron-restrictive silencer element (NRSE) and represses neuronal gene transcription in non-neuronal cells. Restricts the expression of neuronal genes by associating with two distinct corepressors, mSin3 and CoREST, which in turn recruit histone deacetylase to the promoters of REST-regulated genes. Mediates repression by recruiting the BHC complex at RE1/NRSE sites which acts by deacetylating and demethylating specific sites on histones, thereby acting as a chromatin modifier.</p> <p>Transcriptional repression by REST-CDYL via the recruitment of histone methyltransferase EHMT2 may be important in transformation suppression.</p>
Gene ID:	5978
UniProt:	<a href="#">Q13127</a>
Pathways:	<a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Regulation of Hormone Metabolic Process</a> , <a href="#">Regulation of Hormone Biosynthetic Process</a> , <a href="#">Chromatin Binding</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>

## Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.

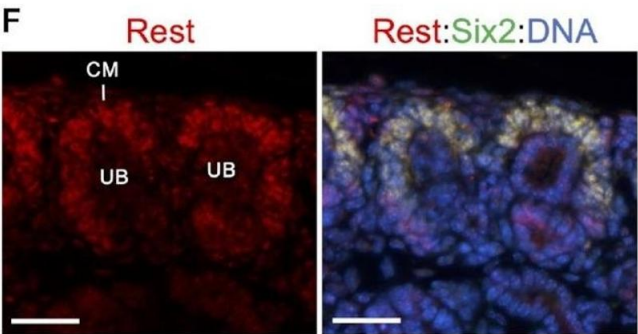
## Handling

Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

## Publications

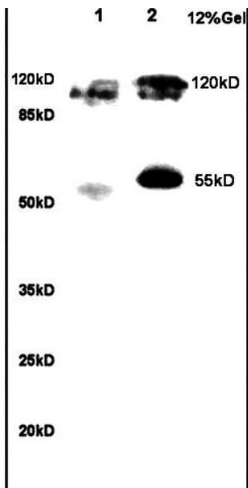
Product cited in:	<p>Li, Cheng, Xu, Zhang, Tokat, Dolios, Ramakrishnan, Shen, Wang, Xu: "The transcriptional coactivator Eya1 exerts transcriptional repressive activity by interacting with REST corepressors and REST-binding sequences to maintain nephron progenitor identity." in: <b>Nucleic acids research</b>, Vol. 50, Issue 18, pp. 10343-10359, (2022) (<a href="#">PubMed</a>).</p> <p>Zhang, Wang, Lu, Wang, Yuan, Yan, Cai, Chang, Zheng, Wu, Zhou: "REST regulates the cell cycle for cardiac development and regeneration." in: <b>Nature communications</b>, Vol. 8, Issue 1, pp. 1979, (2018) (<a href="#">PubMed</a>).</p> <p>Zhang, Wu, Wang, Wang, Lu, Nechiporuk, Floss, Greally, Zheng, Zhou: "Non-CpG methylation by DNMT3B facilitates REST binding and gene silencing in developing mouse hearts." in: <b>Nucleic acids research</b>, Vol. 45, Issue 6, pp. 3102-3115, (2017) (<a href="#">PubMed</a>).</p>
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## Images



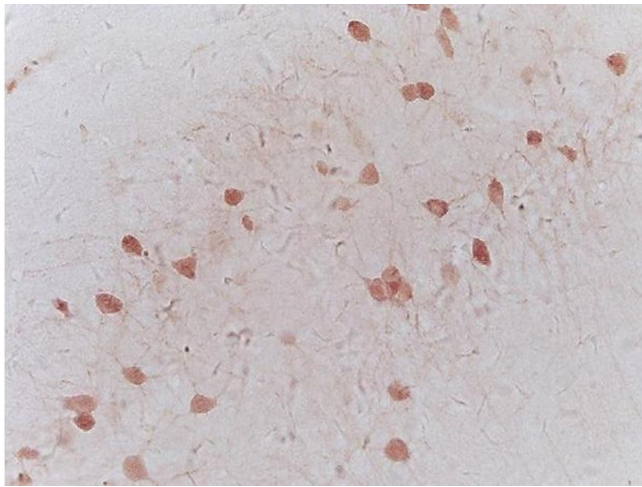
### Immunostaining

**Image 1.** Co-immunostaining for anti-Rest (red) and Six2 (green) showing higher expression levels of Rest in Six2+ cap mesenchyme (CM) surrounding ureteric bud (UB). Scale bar: 30 μm. Source: PMID36130284



### SDS-PAGE

**Image 2.** Formalin-fixed and paraffin embedded human gastric tissue labeled with Anti NRSF/REST Polyclonal Antibody,Unconjugated (ABIN747683) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



### Immunohistochemistry

**Image 3.** Formalin-fixed and frozen mouse brain labeled with Anti-NRSF REST Polyclonal Antibody, unconjugated (ABIN747683) at 1:200 followed by incubation with conjugated secondary antibody

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN747683.