Datasheet for ABIN754963

anti-SOX9 antibody (AA 121-220)

3 Images | 9 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	SOX9
Binding Specificity:	AA 121-220
Reactivity:	Human, Mouse, Rat, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SOX9 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), 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 SOX9
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rabbit, Rat
Predicted Reactivity:	Dog,Cow,Pig,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	SOX9

Target Details

Alternative Name:	SOX9 (SOX9 Products)
Background:	Synonyms: CMD1, SRA1, CMPD1, Transcription factor SOX-9, SOX9 Background: Plays an important role in the normal skeletal development. May regulate the expression of other genes involved in chondrogenesis by acting as a transcription factor for these genes.
Gene ID:	6662
UniProt:	P48436
Pathways:	EGFR Signaling Pathway, Stem Cell Maintenance, Regulation of Muscle Cell Differentiation, Tube Formation, Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	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.
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:

Webster, Cooley-Themm, Barnett, Bach, Vainner, Webster, Linn: "Evidence of BrdU-positive retinal neurons after application of an Alpha7 nicotinic acetylcholine receptor agonist." in: **Neuroscience**, Vol. 346, pp. 437-446, (2017) (PubMed).

Montorsi, Guizzetti, Alecci, Caporali, Martello, Atene, Parenti, Pizzini, Zanovello, Bortoluzzi, Ferrari, Grande, Zanocco-Marani: "Loss of zfp36 expression in colorectal cancer correlates to wnt/ ß-catenin activity and enhances epithelial-to-mesenchymal transition through upregulation of zeb1, sox9 and macc1." in: **Oncotarget**, Vol. 7, Issue 37, pp. 59144-59157, (2016) (PubMed).

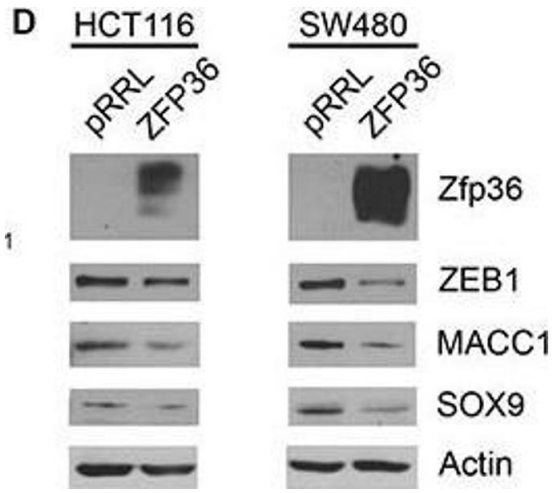
Yang, Lu, Guo: "Platelet-rich plasma protects rat chondrocytes from interleukin-1β-induced apoptosis." in: **Molecular medicine reports**, Vol. 14, Issue 5, pp. 4075-4082, (2016) (PubMed).

Chang, Lin, Lin, Wang, Hsu, Yeh: "The repair of full-thickness articular cartilage defect using intra-articular administration of N-acetyl-D-glucosamine in the rabbit knee: randomized controlled trial." in: **Biomedical engineering online**, Vol. 14, pp. 105, (2016) (PubMed).

Wu, Zhu, Sun, Hu: "Subchondral bone changes and chondrogenic capacity of progenitor cells from subchondral bone in the collagenase-induced temporomandibular joints osteoarthritis rabbit model." in: **International journal of clinical and experimental pathology**, Vol. 8, Issue 9, pp. 9782-9, (2016) (PubMed).

There are more publications referencing this product on: Product page

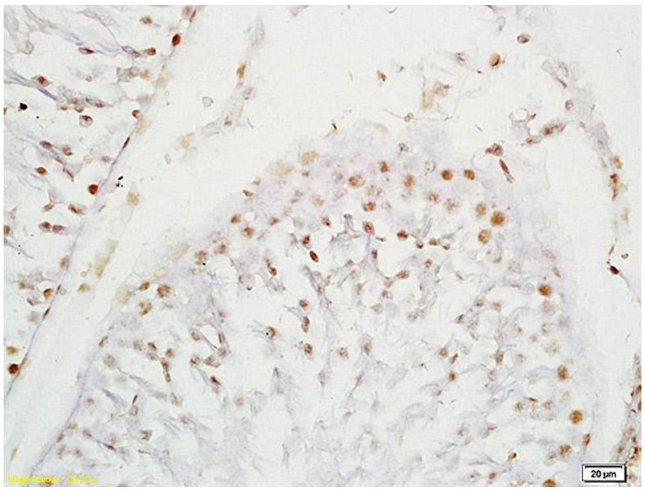
Images



Western Blotting

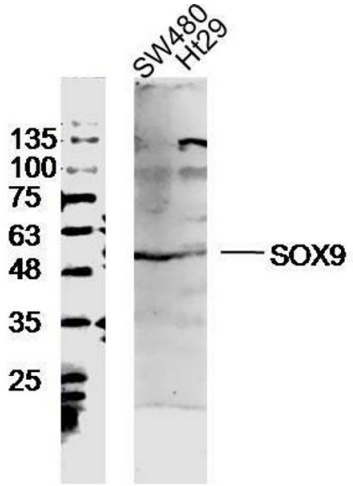
Image 1. Validation of three novel ZFP36 target genes involved in EMT(Panel A) Boxplot of Log 2 expression values of MACC1, SOX9 and ZEB1 in 23 normal colon mucosa (Normal), 30 primary colon carcinoma (CRC) and 27 liver metastases (Mts) samples. The thick line indicates the median value, the coloured box indicates the interquartile range and the whiskers the minimum and maximum values excluded outliers. Open circles represent data points outside the whiskers. (Panel B) Schematic representation of the

3'UTRs sequences of MACC1, SOX9 and ZEB1. A-U rich sequences (ARE) are highlighted in bold. (Panel C) HCT116 and SW480 cells were transfected with an empty vector (pCDNA3.1) or a ZFP36-overexpressing vector (pCDNA3.1-ZFP36). RNA was extracted after 48 hours and MACC1, SOX9, ZEB1 mRNA levels were analysed through qRT-PCR analysis. Results are represented as means of three experiments (+/-SEM) and GAPDH was used as endogenous control. *p < 0.05. (Panel D) HCT116 and SW480 were infected with an empty vector (pRRL) or a ZFP36-overexpressing vector (ZFP36) and corresponding total protein lysates were analysed through Western blotting techniques with antibodies against ZEB1, MACC1, SOX9 and ZFP36. Actin was used as loading control. (Panel E) A fragment of the 3'UTRs of MACC1, SOX9 and ZEB1 was cloned in a pGL3 vector, downstream of the Luciferase gene. These constructs where co-transfected with a Δ-gal reporter plasmid and with an empty vector (pCDNA3.1) or ZFP36 overexpressing vector (pCDNA3.1-ZFP36) in HEK293T cells. Cells were harvested after 48 hours, luciferase activity was measured and normalized over Δ-gal signals. Results are represented as means of three independent experiments +/-SEM. *p < 0.05, **p < 0.001, ***p < 0.0001. - figure provided by CiteAb. Source: PMID27463018



Immunohistochemistry

Image 2. Formalin-fixed and paraffin embedded rat testis labeled with Anti-SOX9/SRA1 Polyclonal Antibody, Unconjugated (ABIN754963) at 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 3. SW480 and Ht29 lysates probed with SOX9 Polyclonal Antibody, unconjugated at 1:300 overnight at 4°C followed by a conjugated secondary antibody at 1:10000 for 90 minutes at 37°C.