

## Anti-Sox9 (Q175) Antibody

Catalog Number: A00177

### About SOX9

Anti cdk2 antibody recognizes a protein encoded by a gene member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of *S. cerevisiae* cdc28, and *S. pombe* cdc2. It is a catalytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported.

### Overview

Product Name	Anti-Sox9 (Q175) Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Sox9 (Q175) Antibody catalog # A00177. Tested in WB,IHC,IF applications. This antibody reacts with Human,Mouse,Rat.
Application	IF, IHC, WB
Clonality	Polyclonal
Formulation	Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P48436

### Technical Details

Immunogen	Synthesized peptide derived from human p38 around the phosphorylation site of Y323.
Predicted Reactive Species	Canine, Monkey
Cross Reactivity	No cross reactivity with other proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/ml
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

**Suggested Dilutions**

Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

WB: 1:500-1:1000

IHC: 1:50-1:200

IF: 1:50-1:200

## Anti-Sox9 (Q175) Antibody (A00177) Images

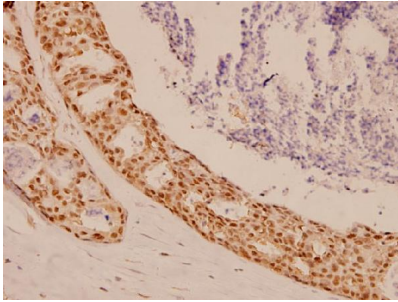


Figure 2. Immunohistochemistry validation of SOX9 using Anti-Sox9 (Q175) Antibody (A00177).

Immunohistochemistry (IHC) analyzes of Sox9 (Q175) pAb in paraffin-embedded human breast carcinoma tissue at 1:100. For more protocol information of IHC

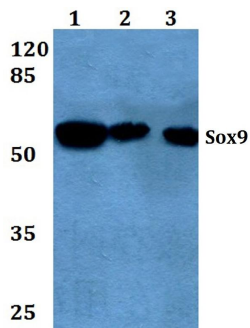


Figure 1. Western blotting validation for Anti-Sox9 (Q175) Antibody A00177

Western blot (WB) analysis of Sox9 (Q175) polyclonal antibody at 1:500 dilution

Lane1:C6 whole cell lysate(40ug)

Lane2:BV2 whole cell lysate(40ug)

Lane3:Hela whole cell lysate(40ug)

Lane4:Panc1 whole cell lysate(40ug)

Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

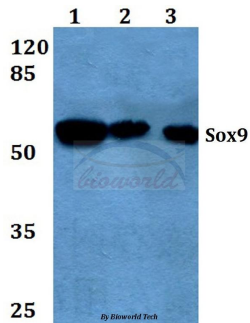


Figure 3. Western blotting validation for Anti-Sox9 (Q175) Antibody A00177

Western blot (WB) analysis of Sox9 (Q175) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate

Lane2:sp2/0 whole cell lysate

Lane3:PC12 whole cell lysate

Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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