

For Research Use Only

# SOX9 Recombinant monoclonal antibody

Catalog Number: 86714-3-RR



## Basic Information

|                                             |                                                           |                                                       |
|---------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>86714-3-RR        | <b>GenBank Accession Number:</b><br>NM_000346             | <b>Purification Method:</b><br>Protein A purification |
| <b>Source:</b><br>Rabbit                    | <b>GeneID (NCBI):</b><br>6662                             | <b>CloneNo.:</b><br>253046H2                          |
| <b>Isotype:</b><br>IgG                      | <b>UNIPROT ID:</b><br>P48436                              | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000   |
| <b>Immunogen Catalog Number:</b><br>AG26274 | <b>Full Name:</b><br>SRY (sex determining region Y)-box 9 |                                                       |
|                                             | <b>Calculated MW:</b><br>56 kDa                           |                                                       |
|                                             | <b>Observed MW:</b><br>56 kDa                             |                                                       |

## Applications

|                                          |                                                                                            |
|------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b>                                                                  |
| <b>Species Specificity:</b><br>human     | <b>WB :</b> BxPC-3 cells, SW480 cells, HCT 116 cells, HT-29 cells, NCCIT cells, PC-3 cells |

## Background Information

SOX9, also named as Transcription factor SOX-9, is a 509 amino acid protein. Sex-determining region Y (SRY)-box 9 protein (SOX9) is a member of the SOX family of transcription factors (TFs) which are developmental regulators that possess high mobility group (HMG) box DNA binding and transactivation domains. It participates in a variety of functions, such as lineage restriction and terminal differentiation, through precise temporal and spatial expression patterns that differ between particular cell types and tissues. SOX9 gene has been implicated in different types of cancer as an oncogene; however, it also may behave as a tumor suppressor. SOX9 can be ubiquitinated or SUMOylated to higher molecular weight (PMID: 24155239; 16307912; 16554309; 32070068)

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

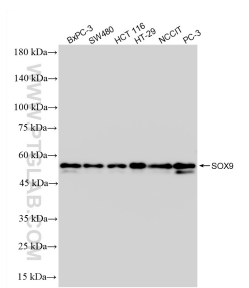
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

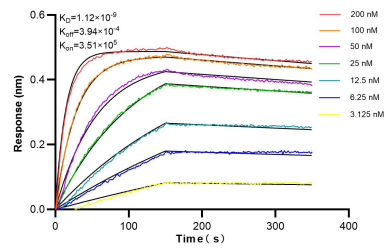
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86714-3-RR (SOX9 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86714-3-RR against Human SOX9 were performed. The affinity constant is 1.12 nM.