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# Anti-SOX9 Rabbit mAb [32F83]

**Catalog No.: A52314**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A52314 |
| Host species | Rabbit |
| Reactivity | Human,Mouse,Rat |
| Applications | WB,IHC,IF,ELISA |
| Synonyms | SOX9,SRY-box 9 |

## Product Information

| | |
|---|---|
| Target | SOX9 |
| Molecular Weight(Calculated) | 56 kDa |
| Molecular Weight(Observed) | 70 kDa |
| Isotype | IgG,Kappa |
| Conjugation | NA |
| Concentration | 0.2 mg/ml |
| Clonality | Monoclonal |
| Clone No. | 32F83 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

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## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:500-1:1000 |
| IHC | 1:200-1:1000 |
| IF | 1:200-1:1000 |
| ELISA | 1:5000-1:20000 |

## Target Information

| | |
|---|---|
| Protein Name | SRY-box transcription factor-9 |
| Gene Name | *SOX9* |
| Domain | NA |
| Background | SOX9 (SRY-box transcription factor 9) is HMG-box containing SOX-family transcription factor acting as master chondrogenic regulator governing mesenchymal-to-chondrocyte differentiation and gonadal development. Nuclear-localized SOX9 binds enhancers of cartilage-specific genes and drives transcription of type-II collagen, aggrecan and other matrix genes to orchestrate chondrogenesis; it also participates in sex-determination pathways. Loss-of-function SOX9 mutations cause campomelic dysplasia. Aberrant SOX9 activation in tumours sustains stem-cell-like properties and promotes proliferation, EMT and metastasis; its overexpression is observed in hepatocellular carcinoma, colorectal cancer and other malignancies. |