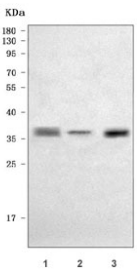
# SOX2 Antibody (RQ8166)

| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8166 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Rat |
| **Format** | Antigen affinity purified |
| **Host** | Rabbit |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | P48431 |
| **Applications** | Western blot: 0.5-1ug/ml<br>Direct ELISA: 0.1-0.5ug/ml |
| **Limitations** | This SOX2 antibody is available for research use only. |




Western blot testing of 1) human U-251, 2) human 293T and 3) rat PC-12 cell lysate with SOX2 antibody. Predicted molecular weight ~34 kDa.

## Description

SRY (sex determining region Y)-box 2, also known as SOX2, is a transcription factor that is essential for maintaining self-renewal, or pluripotency of undifferentiated embryonic stem cells. Sox2 is a member of the Sox family of transcription factors, which have been shown to play key roles in many stages of mammalian development. This gene is mapped to 3q26.33. It is found that SOX2 can regulate OCT3/4 expression and maintains ES pluripotency through upstream transcription factors. SOX2 is identified as a lineage-survival oncogene in lung and esophageal squamous cell carcinoma. In addition to those, SOX2 has a critical role in maintenance of embryonic and neural stem cells and holds great promise

in research involving induced pluripotency, an emerging and very promising field of regenerative medicine.

## Application Notes

Optimal dilution of the SOX2 antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids G185-N208) was used as the immunogen for the SOX2 antibody.

## Storage

After reconstitution, the SOX2 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.


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