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SOX2 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI11380

Specification

SOX2 antibody - N-terminal region - Product Information

Application	**WB**
Primary Accession	P48431
Other Accession	NM_003106, NP_003097
Reactivity	**Human, Mouse, Rat, Zebrafish, Pig, Goat, Bovine**
Predicted	**Human, Mouse, Rat, Rabbit, Zebrafish, Chicken, Sheep**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**34kDa KDa**

SOX2 antibody - N-terminal region - Additional Information

Gene ID 6657

Alias Symbol	**ANOP3, MGC2413, MCOPS3**

Other Names
Transcription factor SOX-2, SOX2

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 100 ul of distilled water. Final anti-SOX2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SOX2 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SOX2 antibody - N-terminal region - Protein Information

Name SOX2

Function
Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in embryonic development such as YES1, FGF4, UTF1 and ZFP206 (By similarity). Binds to the proximal enhancer region of NANOG (By similarity). Critical for early embryogenesis and for embryonic stem cell pluripotency (PubMed:18035408). Downstream SRRT target that mediates the promotion of neural stem cell self-renewal (By similarity). Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses

neuronal differentiation (By similarity). May function as a switch in neuronal development (By similarity).

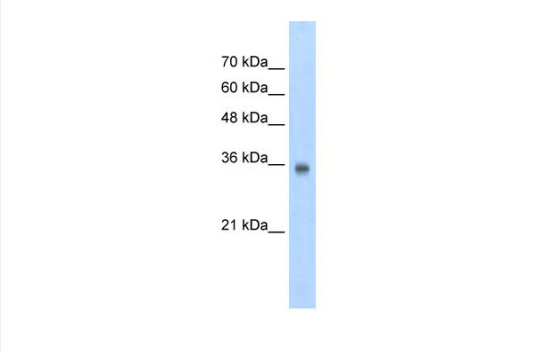
Cellular Location
Nucleus speckle {ECO:0000250|UniProtKB:Q05066}. Cytoplasm {ECO:0000250|UniProtKB:Q05738}. Nucleus {ECO:0000250|UniProtKB:Q05738}. Note=Acetylation contributes to its nuclear localization and deacetylation by HDAC3 induces a cytoplasmic delocalization (By similarity). Colocalizes in the nucleus with ZNF208 isoform KRAB-O and tyrosine hydroxylase (TH) (By similarity) Colocalizes with SOX6 in speckles. Colocalizes with CAML in the nucleus (By similarity). Nuclear import is facilitated by XPO4, a protein that usually acts as a nuclear export signal receptor (By similarity) {ECO:0000250|UniProtKB:Q05066, ECO:0000250|UniProtKB:Q05738}

SOX2 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SOX2 antibody - N-terminal region - Images



WB Suggested Anti-SOX2 Antibody Titration: 2.5µg/ml
Positive Control: Jurkat cell lysate

SOX2 antibody - N-terminal region - References

Lei,J.X., (2005) Cell Death Differ. 12 (11), 1368-1377 Reconstitution and Storage:For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.