

Recombinant Human Transcription factor SOX-2(SOX2)

Catalog No: #AP70800

Package Size: #AP70800-1 20ug #AP70800-2 100ug #AP70800-3 1mg

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Description

Product Name	Recombinant Human Transcription factor SOX-2(SOX2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-317aaSequence Info:Full Length
Accession No.	P48431
Calculated MW	50.3 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MYNMMETELKPPGPQQTSGGGGGNSTAAAAGGNQKNSPDRVKRPMNAFMVWSRGQRRKMAQENPKMHN SEISKRLGAEWKLLSETEKRPFIDEAKRLRALHMKEHPDYKYRPRRKTTLMKDKYTLPGGLLAPGGNSMAS GVGVGAGLGAGVNQRMDSYAHMNGWSNGSYMMQDQLGYPQHPLNAHGAAQMMPMHRYDVSALQYN SMTSSQTYMNGSPTYSMSYSQQGTPGMALGSMGVSVKSEASSPPVVTSSSHSRAPCQAGDLRDMISMYL PGAEVPEPAAPSRLHMSQHYQSGPVPGTAINGTLPPLSHM
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Transcription factor that forms a trimeric complex with OCT4 on DNA and controls the expression of a number of genes involved in bryonic development such as YES1, FGF4, UTF1 and ZFP206 . Critical for early bryogenesis and for bryonic st cell pluripotency. May function as a switch in neuronal development. Downstream SRRT target that mediates the promotion of neural st cell self-renewal . Keeps neural cells undifferentiated by counteracting the activity of proneural proteins and suppresses neuronal differentiation .

References

System-wide temporal characterization of the proteome and phosphoproteome of human embryonic stem cell differentiation.Rigbolt K.T., Prokhorova T.A., Akimov V., Henningsen J., Johansen P.T., Kratchmarova I., Kassem M., Mann M., Olsen J.V., Blagoev B.Sci. Signal. 4:RS3-RS3(2011)Research Topic:Transcription

Note: This product is for in vitro research use only and is not intended for use in humans or animals.