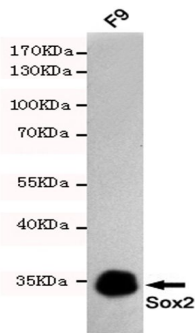


**Sox2****Mouse monoclonal Antibody****#53575****Catalog Number:** 53575**Amount:** 100µg/100µl**Swiss-Prot No. :** P48431**Gene name:**sox2**Gene id:**20674**Clone Number:** 2A10-F11-F12**Form of Antibody:**Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol**Storage/Stability:** Store at -20°C/1 year**Immunogen:** Purified recombinant mouse Sox2 protein fragments expressed in E.coli.**Purification:** affinity-chromatography**Specificity/Sensitivity:**This antibody detects endogenous levels of Sox2 and does not cross-react with related proteins**Reactivity:** Mouse**Applications:** Predicted MW: 35 kd WB: 1:1000 ICC:1:150

Western blot detection of Sox2 in F9 cell lysates using Sox2 mouse mAb (1:1000 diluted). Predicted band size:35KDa. Observed band size:35KDa.

Background :

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. Critical for early embryogenesis and for embryonic stem cell pluripotency. May function as a switch in neuronal development. 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.