



## Six3 (93-200): sc-4422 WB

### BACKGROUND

The Six proteins (sine oculis) are a family of homeodomain transcription factors that share a conserved DNA binding domain. Six2, Six4 (AREC3) and Six5 bind to the same DNA sequence, indicating that they may regulate the same target genes. Six1 and Six4 are both capable of transactivating MEF3 site containing reporter genes, such as myogenin. It has been demonstrated that alterations to homeobox-containing genes may result in cancer. Six1 expression has been shown to be absent or low in normal adult tissues, although it is expressed in several tumor types, including breast carcinoma. Six1 overexpression has been shown to abrogate the G<sub>2</sub> cell cycle checkpoint.

### REFERENCES

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### SOURCE

Six3 (93-200) is expressed in *E. coli* as a 39 kDa tagged fusion protein corresponding to amino acids 93-200 mapping within the carboxy terminal domain of Six3 of human origin.

### PRODUCT

Six3 (93-200) is purified from bacterial lysates (>98%) by glutathione agarose chromatography and supplied as 10 µg in 0.1 ml SDS-PAGE loading buffer.

### APPLICATIONS

Six3 (93-200) is recommended for use as a Western blotting control for sc-9126.

### STORAGE

Store at -20° C; stable for one year from the date of shipment.

### RESEARCH USE

For research use only, not for use in diagnostic procedures.