

# Anti-cROS [5-4E]

**Catalogue number:** 151667

**Sub-type:** Primary antibody

**Images:**

## Contributor

**Inventor:** Al Charest

**Institute:** Tufts University

**Images:**

## Tool details

**\*FOR RESEARCH USE ONLY**

**Name:** Anti-cROS [5-4E]

**Alternate name:**

**Class:** Monoclonal

**Conjugate:** Unconjugated

**Description:** c-ROS is a proto-oncogene tyrosine kinase, that is highly-expressed in a variety of tumour cell lines and belongs to the sevenless subfamily of tyrosine kinase insulin receptor genes. It is a type I integral membrane protein and may function as a growth or differentiation factor receptor. The c-ROS gene promoter region has been identified and characterized and it has been shown that the ectopic expression of c-ROS in tumors is tied to hypomethylation of a CpG island in the c-ROS promoter.

**Purpose:**

**Parental cell:**

**Organism:**

**Tissue:**

**Model:**

**Gender:**

**Isotype:** IgG1

**Reactivity:** Human

**Selectivity:**

**Host:** Mouse

**Immunogen:** Extracellular portion of ROS amino acid 1-285 fused to Fc, transiently expressed in 293 cells and purified using PtnA column chromatography.

**Immunogen UNIPROT ID:**

**Sequence:**

**Growth properties:**

**Production details:**

**Formulation:**

**Recommended controls:** Cells transiently expressing human cROS, mouse cells expressing human cROS

**Bacterial resistance:**

**Selectable markers:**

**Additional notes:**

## Target details

**Target:** cROS

**Target alternate names:**

**Target background:** c-ROS is a proto-oncogene tyrosine kinase, that is highly-expressed in a variety of tumour cell lines and belongs to the sevenless subfamily of tyrosine kinase insulin receptor genes. It is a type I integral membrane protein and may function as a growth or differentiation factor receptor. The c-ROS gene promoter region has been identified and characterized and it has been shown that the ectopic expression of c-ROS in tumors is tied to hypomethylation of a CpG island in the c-ROS promoter.

**Molecular weight:**

**Ic50:**

## Applications

**Application:** IF ; IP ; Fn ; WB

**Application notes:**

## Handling

**Format:** Liquid

**Concentration:** 1 mg/ml

**Passage number:**

**Growth medium:**

**Temperature:**

**Atmosphere:**

**Volume:**

**Storage medium:**

**Storage buffer:** PBS with 0.02% azide

**Storage conditions:** -15° C to -25° C

**Shipping conditions:** Shipping at 4° C

## Related tools

**Related tools:**

## References

**References:** Fei et al. 2019. Biosci Rep. 39(6):. PMID: 31138757. ; Zhang et al. 2019. Int J Biol Sci. 15(7):1460-1471. PMID: 31337976. ; Shih et al. 2017. Oncogene. 36(47):6542-6554. PMID: 28759046. ; Deng et al. 2014. Int J Mol Med. 34(3):661-8. PMID: 24968753. ; Charest et al. 2003. Proc Natl Acad Sci U S A. 100(3):916-21. PMID: 12538861. ; Oncogenic targeting of an activated tyrosine kinase to the Golgi apparatus in a glioblastoma.

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