

NGX6 (X-23): sc-102036

BACKGROUND

Nasopharyngeal carcinoma (NPC) is a common cancer in South China, but is not usually found in other parts of the world. NPC is characterized by orofacial pain and altered nerve sensation as well as a tendency to metastasize. The NPC associated gene 6 (NGX6) is located at a chromosomal location with a high frequency of loss of heterozygosity (LOH). The NGX6 protein contains an epidermal growth factor-like domain and a cytoplasmic region, both of which play a role in modulating cell adhesion. The cytoplasmic domain also functions to regulate growth, proliferation and migration through its association with Ezrin and the ability of the NGX6 protein to downregulate Ezrin expression. NGX6 also inhibits transcriptional activation of β -catenin/TCF/LEF in the Wnt signaling pathway by negatively regulating the nuclear translocation of β -catenin.

REFERENCES

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- Xiong, W., et al. 2002. Single-nucleotide polymorphisms in NGX6 gene and their correlation with nasopharyngeal carcinoma. *Sheng Wu Hua Xue Yu Sheng Wu Wu Li Xue Bao* 34: 512-515.
- Ma, J., et al. 2005. Role of a novel EGF-like domain-containing gene NGX6 in cell adhesion modulation in nasopharyngeal carcinoma cells. *Carcinogenesis* 26: 281-291.
- Wang, L., et al. 2005. NGX6 gene inhibits cell proliferation and plays a negative role in EGFR pathway in nasopharyngeal carcinoma cells. *J. Cell. Biochem.* 95: 64-73.
- Peng, S.P., et al. 2006. The role of NGX6 and its deletion mutants in the proliferation, adhesion and migration of nasopharyngeal carcinoma 5-8F cells. *Oncology* 71: 273-281.
- Peng, S., et al. 2007. The expression of ezrin in NPC and its interaction with NGX6, a novel candidate suppressor. *Cancer Sci.* 98: 341-349.

CHROMOSOMAL LOCATION

Genetic locus: TMEM8B (human) mapping to 9p13.3; Tmem8b (mouse) mapping to 4 B1.

SOURCE

NGX6 (X-23) is a purified rabbit polyclonal antibody raised against NGX6 of human origin.

PRODUCT

Each vial contains 100 μ g IgG in 1.0 ml PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

NGX6 (X-23) is recommended for detection of NGX6 of mouse, rat, human and canine origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NGX6 siRNA (h): sc-92697, NGX6 siRNA (m): sc-140103, NGX6 shRNA Plasmid (h): sc-92697-SH, NGX6 shRNA Plasmid (m): sc-140103-SH, NGX6 shRNA (h) Lentiviral Particles: sc-92697-V and NGX6 shRNA (m) Lentiviral Particles: sc-140103-V.

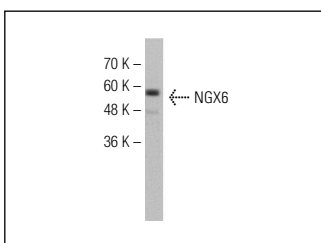
Molecular Weight of NGX6: 52 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204.

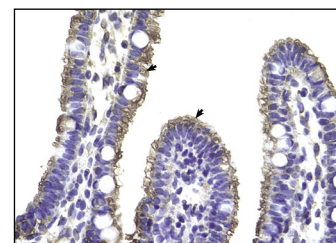
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



NGX6 (X-23): sc-102036. Western blot analysis of NGX6 expression in Jurkat whole cell lysate.



NGX6 (X-23): sc-102036. Immunoperoxidase staining of formalin fixed, paraffin-embedded human intestine tissue showing cytoplasmic staining.

SELECT PRODUCT CITATIONS

- Zhao, W.J., et al. 2013. NGX6 expression improves the sensitivity of tamoxifen-resistant MCF-7 cells through modulation of the Smad signaling pathway. *Int. J. Oncol.* 42: 2060-2068.

RESEARCH USE

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