Data Sheet (Cat.No.TMAC-02896)

Anti-Nuclear Matrix Protein p84 Antibody (8Q603)

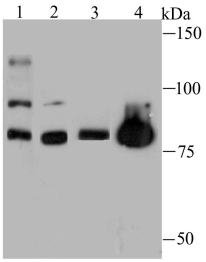
Product Details

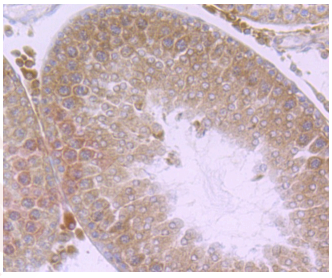
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 76 kDa.
Clone:	8Q603
Purification:	ProA affinity purified

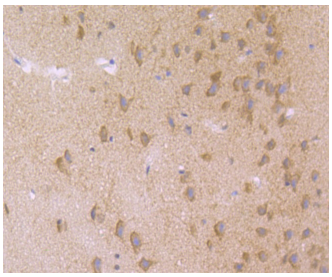
Applications

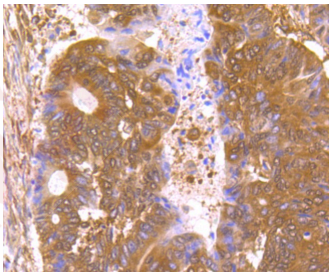
Verified Activity:

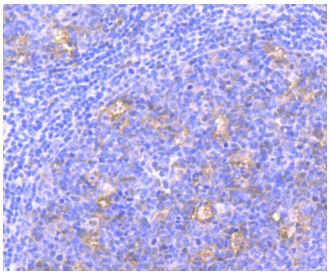
1. Western blot analysis of Nuclear Matrix Protein p84 on different lysates using anti-Nuclear Matrix Protein p84 antibody at 1/500 dilution. Positive control:Lane 1: Hela, Lane 2: A431, Lane 3: Mouse skeletal muscle, Lane 4: PC-12.
2. Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-Nuclear Matrix Protein p84 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded rat brain tissue using anti-Nuclear Matrix Protein p84 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Nuclear Matrix Protein p84 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Nuclear Matrix Protein p84 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Nuclear Matrix Protein p84 antibody. Counter stained with hematoxylin.
7. ICC staining Nuclear Matrix Protein p84 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Nuclear Matrix Protein p84 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

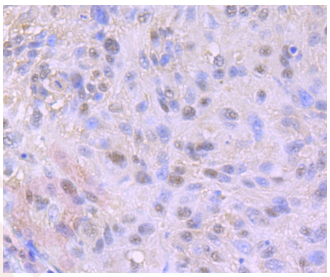


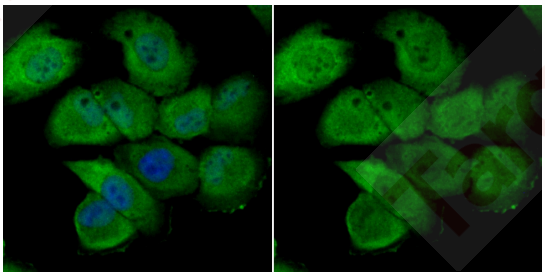


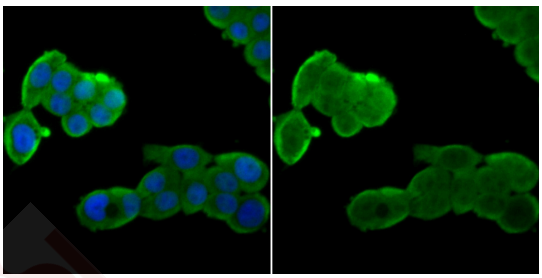












Application: ICC,IHC,WB

Recommended WB: 1:500-2000; IHC: 1:50-200; ICC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q96FV9

Synonyms: HPR1;THOC1_HUMAN;P84;THOC 1;Tho1;HPR 1;Thoc1;THO complex subunit 1;Nuclear matrix protein p84;Tho 1;hTREX84;THO complex 1;p84N5;Death domain containing protein p84N5

Research Background

THOC1 (THO complex subunit 1), also known as Tho1, P84, HPR1 or P84N5, is a 657 amino acid nuclear matrix protein and is evolutionarily conserved from yeast to humans. THOC1 contains one death domain and is a component of the heteromultimeric THO/TREX (transcription/export) complex along with THOC2, THOC3, BAT1 and ALY. The THO/TREX complex is recruited to transcribed genes and travels along with RNA polymerase II (Pol II) during elongation, coupling elongating Pol II with RNA splicing and export factors. THOC1 is expressed at high levels in breast cancer cells and at relatively low levels in normal epithelia. A reduction of THOC1 in cancer cell lines results in reduced cell proliferation. This suggests that cancer cells are dependent on the high levels of THOC1 expression and therefore THOC1 may be a good target for cancer therapy.

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