

Anti-NAIF1 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human (predicted:Mouse,Rat,Chicken,Dog,Cow,Horse)
Molecular Weight:	Theoretical: 35 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	Tissue/cell: human colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01 M, pH 6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-NAIF1 Polyclonal Antibody, Unconjugated (TMAB-09210) 1: 200, overnight at 4°C, followed by conjugation to the secondary antibody and DAB staining
Application:	IHC-P,IHC-Fr,IF
Recommended	IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human NAIF1
Antigen Species:	Human
Gene ID:	203245
Uniprot ID:	Q69YI7

Research Background

NAIF protein 1 (nuclear apoptosis inducing factor 1; CB12-327; RP-379C10.2) belongs to the NAIF1 family. Apoptosis is a genetically determined cell suicidal program that plays critical roles in many physiological and pathological processes. nuclear apoptosis-inducing factor 1 (NAIF1), overexpression of which induces apoptosis in cells. Human NAIF1 is located on chromosome 9q34.11 and encodes 327 amino acids with a homeodomain-like region and two nuclear localization signals at its N-terminal region. NAIF1 is conserved across diverse species, including human, mouse, crab-eating macaque, dog, chicken and frog, and shares no obvious homology to any known genes or proteins. Northern blot analysis revealed wide expression of NAIF1 mRNA throughout human tissues. NAIF1 was predominantly localized in the nucleus. Overexpression of NAIF1 inhibited cell growth and induced apoptosis. Furthermore, NAIF1 transfection caused both decreases in mitochondrial membrane potential and caspase-3 activation. In summary, NAIF1 is a nuclear protein that induces apoptosis when overexpressed.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481