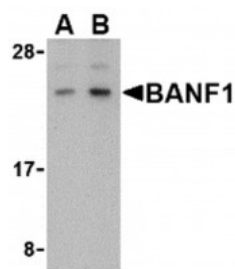


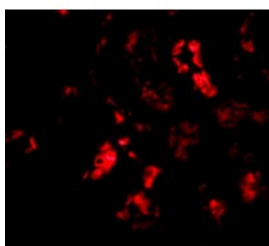


BANF1 Antibody

CATALOG NUMBER: 4017



Western blot analysis of BANF1 in human kidney tissue lysate with BANF1 antibody at (A) 0.5 and (B) 1 ug/mL.



Immunofluorescence of BANF1 in human kidney tissue with BANF1 antibody at 20 ug/mL.

Specifications

SPECIES REACTIVITY:	Human, Mouse
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Bovine: (100%)
TESTED APPLICATIONS:	ELISA, IF, WB
APPLICATIONS:	BANF1 antibody can be used for detection of BANF1 by Western blot at 0.5 - 1 ug/mL. Despite its predicted molecular weight, BANF1 often migrates at a higher size in SDS-PAGE. Antibody can also be used for immunofluorescence starting at 20 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1305 - Human Kidney Tissue Lysate
IMMUNOGEN:	BANF1 antibody was raised against a 15 amino acid synthetic peptide from near the carboxy terminus of human BANF1. The immunogen is located within the last 50 amino acids of BANF1.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	BANF1 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	BANF1 Antibody is supplied in PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/mL
STORAGE CONDITIONS:	BANF1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	BANF1 Antibody: BAF, NGPS, BCRP1, D14S1460, BAF, BCRG1, Barrier-to-autointegration factor, Breakpoint cluster region protein 1
ACCESSION NO.:	AAH05942
PROTEIN GI NO.:	13543577
OFFICIAL SYMBOL:	BANF1
GENE ID:	8815

Background

BACKGROUND: BANF1 Antibody: Barrier-to-autointegration factor 1 (BANF1) is a conserved chromatin protein that non-specifically binds double-stranded DNA. BANF1 also interacts with a family of nuclear proteins that include LAP2, emerlin, and MAN1. It is also a host cell component of retroviral pre-integration complexes (PICs), including that of HIV. BANF1 will bind to p55 Gag (the structural precursor of HIV-1 virions) as well as its cleaved product matrix. In addition to being a host cell component of the PIC, it is thought that BANF1 is also present at low levels in incoming virions, and thus might contribute to the assembly or activity of HIV-1 PICs through direct binding to matrix as well as DNA.

REFERENCES:

- 1) Furukawa K. LAP2 binding protein 1 (L2BP1/BAF) is a candidate mediator of LAP2-chromatin interaction. J. Cell Sci. 1999; 112:2485-92.
- 2) Cai M, Huang Y, Ghirlando R, et al. Solution structure of the constant region of nuclear envelope protein LAP2 reveals two LEM-domain structures: one binds BAF and the other binds DNA. EMBO J. 2001; 20:4399-407.
- 3) Chen H and Engelman A. The barrier-to-autointegration protein is a host factor for HIV type 1 integration. Proc. Natl. Acad. Sci. USA 1998; 95:15270-4.

FOR RESEARCH USE ONLY

December 12, 2016