BANF1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	BANF1, Blocking Peptide
Full Product Name	BANF1 Blocking Peptide
Product Gene Name	BANF1 blocking peptide
Product Synonym Names	BAF; BAF_HUMAN; BANF 1; BANF1; Barrier to autointegration factor 1; Barrier to autointegration factor; Barrier-to-autointegration factor; BCRG 1; BCRG1; BCRP 1; BCRP1; Breakpoint cluster region protein 1; D14S1460; MGC111161; NGPS
Antibody/Peptide Pairs	BANF1 peptide (MBS9632095) is used for blocking the activity of BANF1 antibody (MBS9629712)
Molecular Weight	10,059 Da
OMIM	gene 614008
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BANF1 blocking peptide	MBS9632095 is a blocking peptide targeting BANF1.
Other Notes	Small volumes of BANF1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BANF1. It may not necessarily be applicable to this product.

NCBI GI #	13543577
NCBI GeneID	8815
NCBI Accession #	AAH05942
UniProt Primary Accession #	O75531
UniProt Secondary Accession #	O60558; Q6FGG7
UniProt Related Accession #	O75531
NCBI Official Full Name	Barrier to autointegration factor 1
NCBI Official Synonym Full Names	barrier to autointegration factor 1
NCBI Official Symbol	BANF1
NCBI Official Synonym Symbols	BAF; NGPS; BCRP1; D14S1460
UniProt Protein Name	Barrier-to-autointegration factor
UniProt Synonym Protein Names	Breakpoint cluster region protein 1Barrier-to-autointegration factor, N-terminally processed
Protein Family	Barrier-to-autointegration factor
UniProt Gene Name	BANF1

UniProt Synonym Gene Names	BAF; BCRG1
UniProt Entry Name	BAF_HUMAN
NCBI Protein Information	barrier-to-autointegration factor; breakpoint cluster region protein 1
NCBI Summary for BANF1	The protein encoded by this gene was first identified by its ability to protect retroviruses from intramolecular integration and therefore promote intermolecular integration into the host cell genome. The protein forms a homodimer which localizes to both the nucleus and cytoplasm and is specifically associated with chromosomes during mitosis. This protein binds to double stranded DNA in a non-specific manner and also binds to LEM-domain containing proteins of the nuclear envelope. This protein is thought to facilitate nuclear reassembly by binding with both DNA and inner nuclear membrane proteins and thereby recruit chromatin to the nuclear periphery. Alternative splicing results in multiple transcript variants encoding the same protein.[provided by RefSeq, Jan 2009]
UniProt Comments for BANF1	BAF: Plays fundamental roles in nuclear assembly, chromatin organization, gene expression and gonad development. May potently compress chromatin structure and be involved in membrane recruitment and chromatin decondensation during nuclear assembly. Contains 2 non-specific dsDNA-binding sites which may promote DNA cross-bridging. Exploited by retroviruses for inhibiting self- destructing autointegration of retroviral DNA, thereby promoting integration of viral DNA into the host chromosome. EMD and BAF are cooperative cofactors of HIV-1 infection. Association of EMD with the viral DNA requires the presence of BAF and viral integrase. The association of viral DNA with chromatin requires the presence of BAF and EMD. Defects in BANF1 are the cause of Nestor-Guillermo progeria syndrome (NGPS). NGPS is an atypical progeroid syndrome characterized by normal development in the first years of life, later followed by the emergence of generalized lipoatrophy, severe osteoporosis, and marked osteolysis. The atrophic facial subcutaneous fat pad and the marked osteolysis of the maxilla and mandible result in a typical pseudosenile facial appearance with micrognatia, prominent subcutaneous venous patterning, a convex nasal ridge, and proptosis. Cognitive development is completely normal. Patients do not have cardiovascular dysfunction, atherosclerosis, or metabolic anomalies. Belongs to the BAF family. Protein type: DNA-binding Chromosomal Location of Human Ortholog: 11q13.1 Cellular Component: nucleoplasm; cytoplasm; chromosome; nucleus; cytosol Molecular Function: protein binding; DNA binding Biological Process: mitotic nuclear envelope reassembly; viral reproduction; DNA integration; response to virus; mitotic nuclear envelope disassembly; mitotic cell cycle Disease: Nestor-guillermo Progeria Syndrome
Research Articles on BANF1	**1.** VRK1 deficiency disrupts nuclear envelope morphology and leads to BAF retention on mitotic chromosomes.
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