10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

BIKE Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1723a

Specification

BIKE Antibody (Center) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9NSY1
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**129172**
Antigen Region	**260-291**

BIKE Antibody (Center) - Additional Information

Gene ID 55589

Other Names
BMP-2-inducible protein kinase, BIKe, BMP2K, BIKE

Target/Specificity
This BIKE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 260-291 amino acids from the Central region of human BIKE.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
BIKE Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

BIKE Antibody (Center) - Protein Information

Name BMP2K

Synonyms BIKE

Function May be involved in osteoblast differentiation.

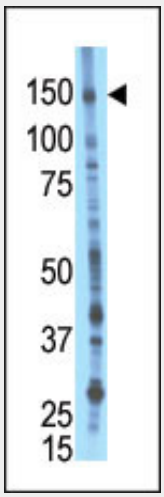
Cellular Location
Nucleus.

BIKE Antibody (Center) - Protocols

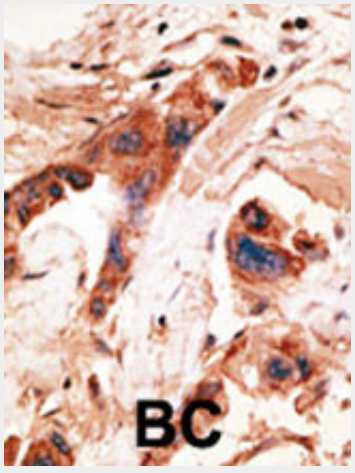
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

BIKE Antibody (Center) - Images



The anti-Bike C-term Pab (Cat. #AP1723a) is used in Western blot to detect Bike in mouse liver tissue lysate.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

BIKE Antibody (Center) - Background

BIKE is the human homolog of mouse BMP-2-inducible kinase. Bone morphogenic proteins (BMPs) play a key role in skeletal development and patterning. Expression of the mouse gene is increased during BMP-2 induced differentiation and the gene product is a putative serine/threonine protein kinase containing a nuclear localization signal. Therefore, the protein encoded by this human homolog is thought to be a protein kinase with a putative regulatory role in attenuating the program of osteoblast differentiation.

BIKE Antibody (Center) - References

Kearns, A.E., et al., J. Biol. Chem. 276(45):42213-42218 (2001).
Hoffmann, A., et al., Crit. Rev. Eukaryot. Gene Expr. 11 (1-3), 23-45 (2001).