Product datasheet

Anti-Vimentin/VIM Antibody (Clone#AGF-22)

Catalog Number: *BM4029*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Web: www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

Basic Information

Product Name	Anti-Vimentin/VIM Antibody (Clone#AGF-22)
Gene Name	VIM
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human Vimentin
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	54 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 Flow Cytometry (FCM): 1:50

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

VIM(vimentin) is also known as HEL113 or CTRCT30. This gene encodes a member of the intermediate filament family. Intermediate filamentents, along with microtubules and actin microfilaments, make up the cytoskeleton. The protein encoded by this gene is responsible for maintaining cell shape, integrity of the cytoplasm, and stabilizing cytoskeletal interactions. It is also involved in the immune response, and controls the transport of low-density lipoprotein (LDL)-derived cholesterol from a lysosome to the site of esterification. It functions as an organizer of a number of critical proteins involved in attachment, migration, and cell signaling. Mutations in this gene causes a dominant, pulverulent cataract.

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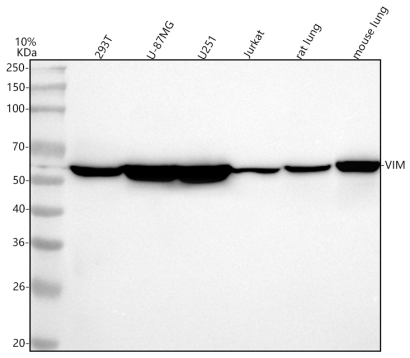
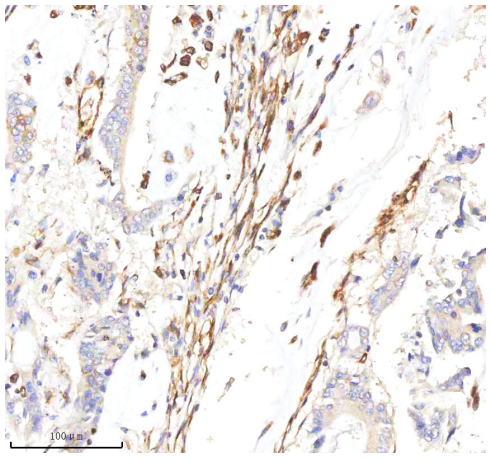
Reference

Anti-Vimentin/VIM Antibody (Clone#AGF-22)被引用在38文献中。

Selected Validation Data



Western blot analysis of anti-Vimentin/VIM antibody (BM4029). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human 293T whole cell lysates,
Lane 2: human U-87MG whole cell lysates,
Lane 3: human U251 whole cell lysates,
Lane 4: human Jurkat whole cell lysates,
Lane 5: rat lung tissue lysates,
Lane 6: mouse lung tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Vimentin/VIM antigen affinity purified monoclonal antibody (BM4029) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Vimentin/VIM at approximately 54 kDa. The expected band size for Vimentin/VIM is at 54 kDa.



IHC analysis of Vimentin/VIM using anti-Vimentin/VIM antibody (BM4029) .
Vimentin/VIM was detected in a paraffin-embedded section of human colon cancer tissue. The tissue section was incubated with rabbit anti-Vimentin/VIM Antibody (BM4029) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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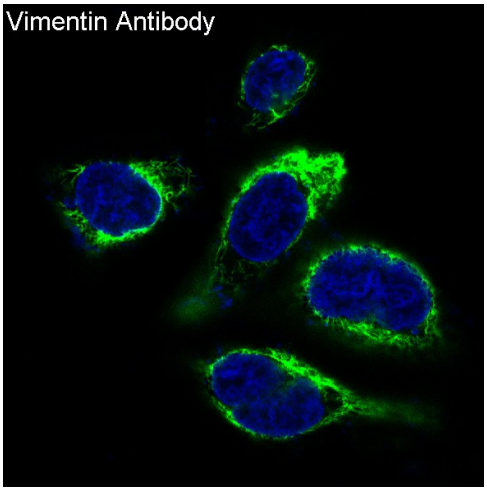

Immunofluorescent analysis of Hela cells, using Vimentin Antibody.