

# Product Datasheet

## PUMA Antibody - BSA Free

### NBP1-76639

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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#### Publications: 7

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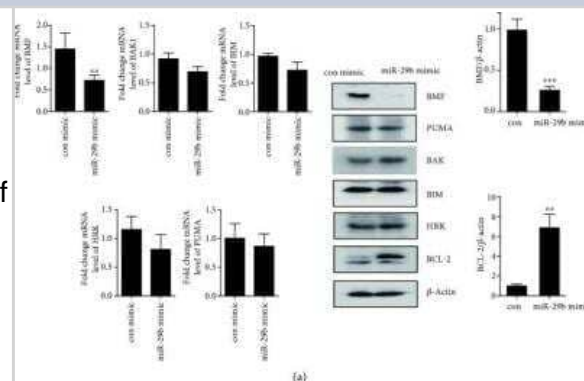
**NBP1-76639**

PUMA Antibody - BSA Free

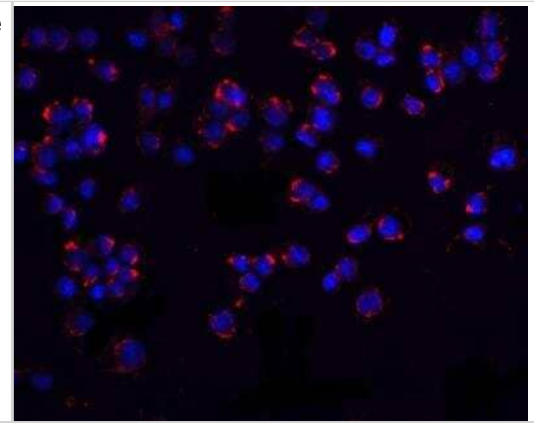
Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Peptide affinity purified
Buffer	PBS
Target Molecular Weight	23 kDa
Product Description	
Host	Rabbit
Gene ID	27113
Gene Symbol	BBC3
Species	Human, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 16399862).
Specificity/Sensitivity	Human PUMA has 4 isoforms, including isoform 1 (193aa, 21kD), isoform 2 (131aa, 14kD), isoform 3 (101aa, 10kD) and isoform 4 (261aa, 27kD). This antibody detects human isoform 1, and is predicted to detect mouse and rat PUMA (193aa, 21kD for both of them).
Immunogen	Antibody was raised against a peptide corresponding to 14 amino acids near the amino terminus of human PUMA isoform 1. The immunogen is located within the first 50 amino acids of PUMA. Amino Acid Sequence: ARARQEGSSPEPVEG
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2-3 ug/mL, ELISA 1:100-1:2000, Immunohistochemistry 2.5-10 ug/mL, Immunocytochemistry/ Immunofluorescence 10-20 ug/mL, Immunohistochemistry-Paraffin

**Images**

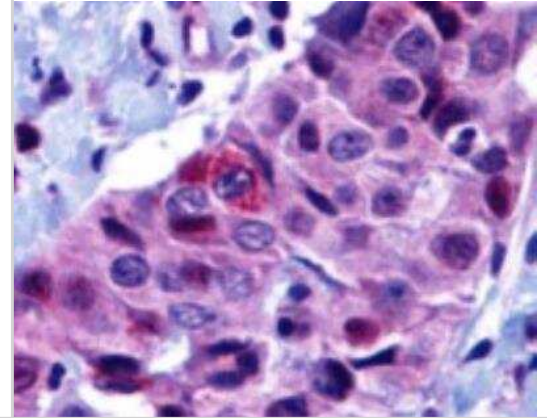
Western Blot: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - Identification of target for LPS-induced miR-29b in OCs. BMMs were incubated with M-CSF (30 ng/ml) and RANKL (40 ng/ml) for 40 h, washed thoroughly, and incubated further with LPS (50 ng/ml) in the presence of M-CSF (30 ng/ml) for 48 h. Cells were transfected with 30 nM of miR-29b mimic or con mimic in the presence of M-CSF (30 ng/ml) for 6 h. Total RNA was analyzed by qPCR to quantify the expression of BMF, PUMA, BAK1, BIM, and HRK. Expression levels with con mimic treatment were set at 1. Cell lysates were subjected to Western blot analysis with antibodies against BMF, PUMA, BAK1, BIM, HRK, and BCL-2. Antibodies against beta-actin were used for normalization. Image collected and cropped by CiteAb from the following publication (<https://www.hindawi.com/journals/omcl/2019/6018180/>) licensed under a CC-BY license.



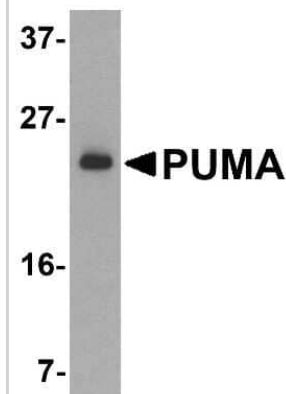
Immunocytochemistry/Immunofluorescence: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - Analysis of PUMA in K562 cells with PUMA antibody at 20 ug/ml.



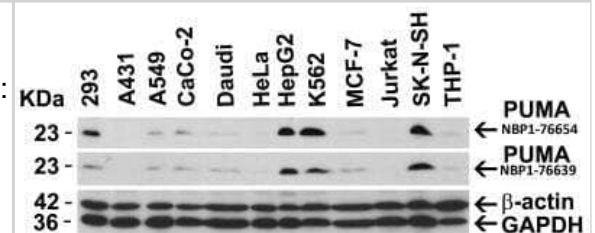
Immunohistochemistry-Paraffin: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - Human breast carcinoma with PUMA antibody at 10 ug/mL. Immunohistochemistry of PUMA in human breast carcinoma with PUMA antibody at 10 ug/mL.



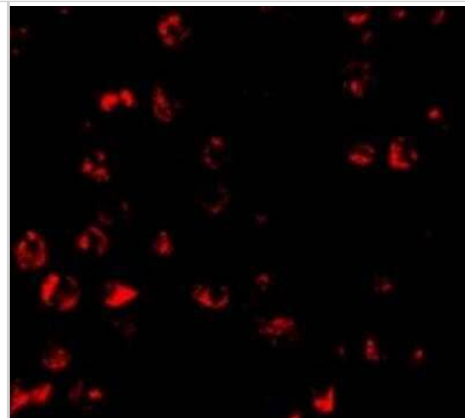
Western Blot: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - K562 cell lysate with PUMA antibody at 2 ug/ml.



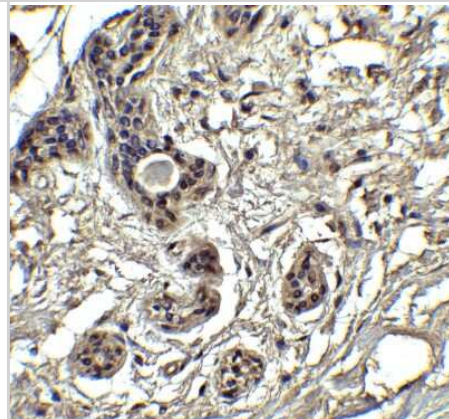
Western Blot: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - Independent Antibody Validation (IAV) via Protein Expression Profile Loading: 20 ug of lysates per lane. Antibodies: NBP1-76654 (3 ug/mL), NBP1-76639 (2 ug/mL), beta-actin (1 ug/mL) and GAPDH (0.02 ug/mL), 1 h incubation at RT in 5% NFDN/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate.



Immunocytochemistry/Immunofluorescence: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - K562 cells.



Immunohistochemistry: PUMA Antibody - BSA Free [NBP1-76639] - PUMA Antibody [NBP1-76639] - Analysis of PUMA in human breast tissue with PUMA antibody at 2.5 ug/ml.



## Publications

Sarkar S, Biswas SC Studies on Contribution of Astrocyte Secreted Proteins on Neuronal Health in Models of Alzheimer's Disease Thesis 2022-01-01 (WB, Rat)

Sul O. J, Rajasekaran M, et al. MicroRNA-29b Enhances Osteoclast Survival by Targeting BCL-2-Modifying Factor after Lipopolysaccharide Stimulation. *Oxid Med Cell Longev* 2019-05-17 [PMID: 31093317] (WB, Mouse)

Choi SH, Koh DI, Cho SY et al. Temporal and differential regulation of KAISO-controlled transcription by phosphorylated and acetylated p53 highlights a crucial regulatory role of apoptosis J. *Biol. Chem.* 2019-07-11 [PMID: 31296660] (WB, Human)

Long JS, Schoonen PM, Graczyk D et al. p73 engages A2B receptor signalling to prime cancer cells to chemotherapy-induced death *Oncogene*. 2015-02-09 [PMID: 25659586] (WB, Human)

Toth A, Jeffers JR, Nickson P et al. Targeted deletion of Puma attenuates cardiomyocyte death and improves cardiac function during ischemia-reperfusion. *Am J Physiol Heart Circ Physiol*. 2006-07-01 [PMID: 16399862] (WB, Rat)

### Details:

WB: Fig 1B (primary rat cardiomyocytes exposed to hypoxia, Puma is identified as a 22 kDa band), Fig 2B (primary rat cardiomyocytes infected with GFP-conjugated Puma-alpha adenoviruses). Note: The specificity of the PUMA IMG-458 antibody was Puma-alpha ad

Karst AM, Dai DL, Martinka M, Li G. PUMA expression is significantly reduced in human cutaneous melanomas. *Oncogene*. 2005-02-03 [PMID: 15690057] (IHC-P, Human)

### Details:

Puma (IMG-458). IHC (paraffin): Human dysplastic nevi, primary melanoma, and metastatic melanoma tumor tissues, Fig 1.

Fandy TE, Ross DD, Gore SD, Srivastava RK. Flavopiridol synergizes TRAIL cytotoxicity by downregulation of FLIPL. *Cancer Chemother Pharmacol*. 2007-08-01 [PMID: 17187253] (WB)

### Details:

Puma alpha NT (IMG-458-1). WB: MM1S myeloma cell line treated with flavopiridol, Fig 4A.



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### **Products Related to NBP1-76639**

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NBP1-76639PEP	PUMA Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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