

# Product Datasheet

## FLIP Antibody - BSA Free NBP1-77020

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: 9

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**NBP1-77020**

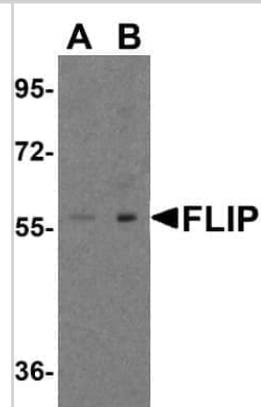
FLIP Antibody - BSA Free

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	Ion exchange chromatography
Buffer	PBS
Target Molecular Weight	58 kDa
Product Description	
Description	Novus Biologicals Rabbit FLIP Antibody - BSA Free (NBP1-77020) is a polyclonal antibody validated for use in WB, ELISA and ICC/IF. Anti-FLIP Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8837
Gene Symbol	CFLAR
Species	Human, Mouse
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 15090542)
Specificity/Sensitivity	FLIP has short form (FLIPS) and long form (FLIPL) and antibody recognizes the FLIPL only.
Immunogen	Antibody was raised against a 17 amino acid peptide near the carboxy terminus of mouse FLIP. The immunogen is located within the last 50 amino acids of FLIP. Amino Acid Sequence: DKVYAWNSGVSSKEKYS
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	Western Blot 1-2 ug/ml, ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 5 ug/ml

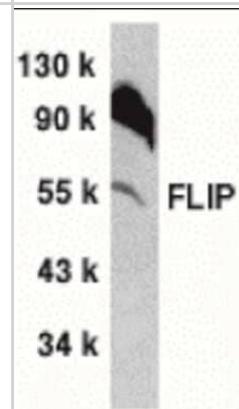


**Images**

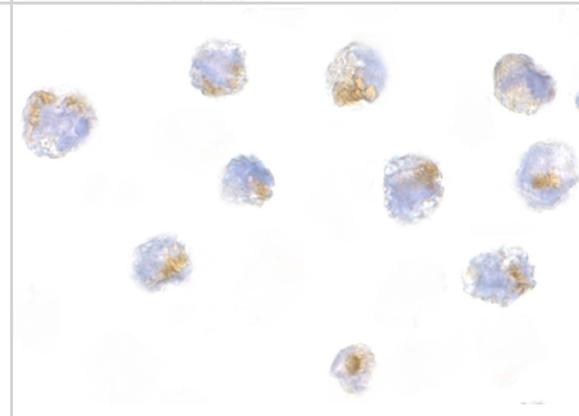
Western Blot: FLIP Antibody [NBP1-77020] - Analysis of FLIP in K562 cell lysate with FLIP antibody at (A) 1 and (B) 2 ug/ml.



Western Blot: FLIP Antibody [NBP1-77020] - Western blot analysis of FLIP in NIH/3T3 whole cell lysate with FLIP antibody at 1:500 dilution.



Immunocytochemistry/ Immunofluorescence: FLIP Antibody - BSA Free [NBP1-77020] - Immunocytochemistry of FLIP in 3T3 cells with FLIP antibody at 5 ug/mL.



## Publications

Phromnoi K, Reuter S, Sung B et al. A novel pentamethoxyflavone down-regulates tumor cell survival and proliferative and angiogenic gene products through inhibition of I $\kappa$ B kinase activation and sensitizes tumor cells to apoptosis by cytokines and chemotherapeutic agents. *Mol Pharmacol.* 2011-02-01 [PMID: 20930110]

### Details:

KBM-5 cells: 1. FLIP (IMG-116-1, -2): WB (Fig 4A) 2. IKKb/IKK2 (IMG-129A): IP Kinase Assay (Fig 2D), IP/WB (Fig 2D). Note, the antibody IP'd an active kinase. The antibody co'IP'd IKKa. 3. IKKa (IMG-136a): WB (Figs 2C, 2D). Note Fig 2D was generated with an IP (IKKb, IMG-129A)/WB (IKKa, IMG-136a) assay. Note: The KBM-5 (human chronic myeloid leukemia) cells were incubated with PMF then treated with TNF-alpha, Figs 2C, 2D, 4A.

Aggarwal S, Ichikawa H, Takada Y et al. Curcumin (diferuloylmethane) down-regulates expression of cell proliferation and antiapoptotic and metastatic gene products through suppression of I $\kappa$ B kinase and Akt activation. *Mol Pharmacol.* 2006-01-01 [PMID: 16219905]

Kim JH, Gupta SC, Park B et al. Turmeric (*Curcuma longa*) inhibits inflammatory nuclear factor (NF)- $\kappa$ B and NF- $\kappa$ B-regulated gene products and induces death receptors leading to suppressed proliferation, induced chemosensitization, and suppressed osteoclastogenesis. *Mol Nutr Food Res.* 2012-03-01 [PMID: 22147524]

### Details:

1. SEAPorter Assay kit (10055k): Fig 2B, Analysis of the effects of tumeric on the inhibition of TNF-induced NF- $\kappa$ B activation in NF- $\kappa$ B SEAP stably transfected cells. 2. FLIP/I-FLICE pAb (IMG-116-1/116-2): Fig 5C (WB), HCT-116 cells treated with tumeric.

Takada Y, Khuri FR, Aggarwal BB. Protein farnesyltransferase inhibitor (SCH 66336) abolishes NF- $\kappa$ B activation induced by various carcinogens and inflammatory stimuli leading to suppression of NF- $\kappa$ B-regulated gene expression and up-regulation of apoptosis. *J Biol Chem.* 2004-06-18 [PMID: 15090542]

Kim K, Fisher MJ, Xu SQ, el-Deiry WS. Molecular determinants of response to TRAIL in killing of normal and cancer cells. *Clin Cancer Res.* 2000-02-01 [PMID: 10690508]

Takada Y, Andreeff M, Aggarwal BB. Indole-3-carbinol suppresses NF- $\kappa$ B and I $\kappa$ B kinase activation, causing inhibition of expression of NF- $\kappa$ B-regulated antiapoptotic and metastatic gene products and enhancement of apoptosis in myeloid and leukemia cells. *Blood.* 2005-07-15 [PMID: 15811958]

Ichikawa H, Takada Y, Murakami A, Aggarwal BB. Identification of a novel blocker of I $\kappa$ B kinase that enhances cellular apoptosis and inhibits cellular invasion through suppression of NF- $\kappa$ B-regulated gene products. *J Immunol.* 2005-06-01 [PMID: 15905586]

Takada Y, Fang X, Jamaluddin MS et al. Genetic deletion of glycogen synthase kinase-3 $\beta$  abrogates activation of I $\kappa$ B kinase, JNK, Akt, and p44/p42 MAPK but potentiates apoptosis induced by tumor necrosis factor. *J Biol Chem.* 2004-09-17 [PMID: 15252041]

Kishimoto H, Sprent J. A defect in central tolerance in NOD mice. *Nat Immunol.* 2001-11-01 [PMID: 11668341]



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### **Products Related to NBP1-77020**

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NBP1-77020PEP	FLIP Antibody Blocking Peptide
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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