

# 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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**NBP1-77020**

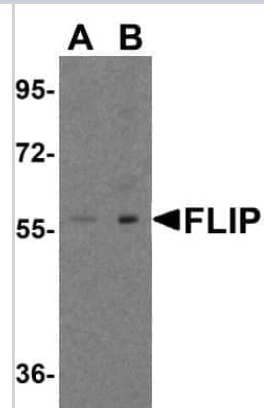
FLIP Antibody - BSA Free

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	
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

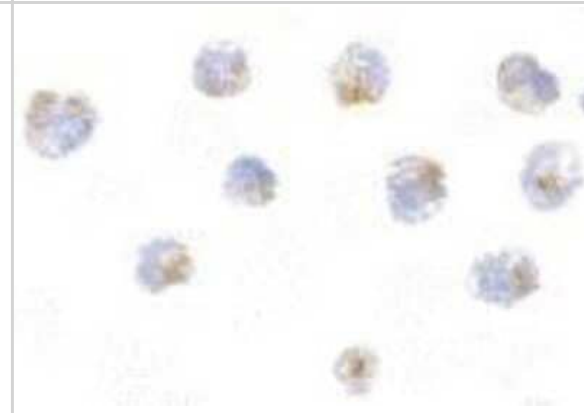


## Images

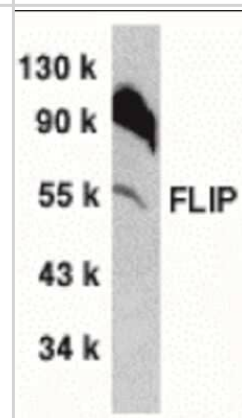
Western Blot: FLIP Antibody [NBP1-77020] - Analysis of FLIP in K562 cell lysate with FLIP antibody at (A) 1 and (B) 2 ug/ml.



Immunocytochemistry/Immunofluorescence: FLIP Antibody [NBP1-77020] - 3T3 cells with FLIP antibody at 5 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.



## 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
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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