

# Product Datasheet

## RelA/NFkB p65 [p Ser529] Antibody NBP1-77808

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NBP1-77808**

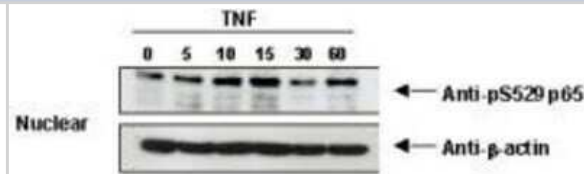
RelA/NFκB p65 [p Ser529] Antibody

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	Serum
Purity	Delipidation and Defibrination
Buffer	Antiserum
Product Description	
Description	<p>This antibody was prepared from monospecific antiserum by delipidation and defibrination</p> <p>Store this antibody at -20C prior to opening. Aliquot contents and freeze at -20C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4C as an undiluted liquid. Dilute only prior to immediate use.</p>
Host	Rabbit
Gene ID	5970
Gene Symbol	RELA
Species	Human
Reactivity Notes	This phospho specific polyclonal antibody is specific for phosphorylated pS529 human RelA/NFκB p65. Reactivity with non-phosphorylated RelA/NFκB p65 is minimal. Cross reactivity with pS529 phosphorylated RelA/NFκB p65 from mouse, rat or other species has not been determined.
Specificity/Sensitivity	This phospho specific polyclonal antibody is specific for phosphorylated pS529 human RelA/NFκB p65. Reactivity with non-phosphorylated RelA/NFκB p65 is minimal. Cross reactivity with pS529 phosphorylated RelA/NFκB p65 from mouse, rat or other species has not been determined.
Immunogen	RelA/NFκB p65 peptide corresponding to a region near phospho Serine 529 of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH). (Uniprot: Q04206)
Product Application Details	
Applications	Western Blot, Simple Western, ELISA, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Simple Western, ELISA 1:5000-1:25000, Immunohistochemistry 1:200-1:1000
Application Notes	<p>This product reacts human pS529 p65 and shows minimal reactivity by western blot with non-phosphorylated p65 and minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide. Although not tested, this antibody is likely functional in immunohistochemistry and immunoprecipitation.</p> <p><a href="#">Simple Western Antibody Database</a> for Simple Western validation: tested in HeLa-/+TNF, HeLa-/+TPA, nuclear extract; separated by charge; antibody dilution of 1:50.</p>

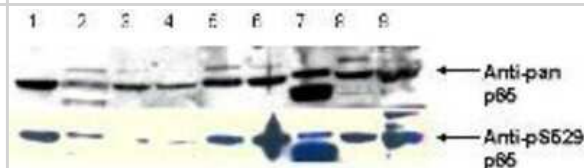


## Images

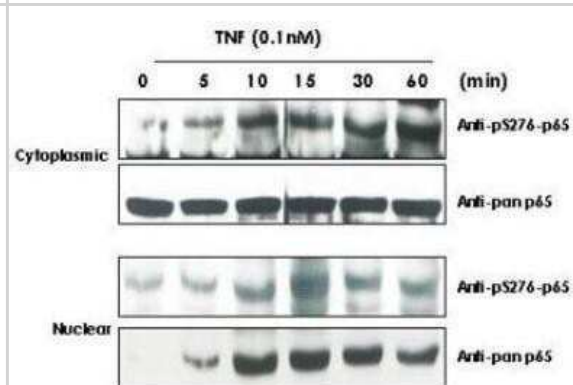
Western Blot: RelA/NFκB p65 [p Ser529] Antibody [NBP1-77808] - TNF Induces phosphorylation of p65 in KBM-5 cells. Nuclear protein lysates prepared after 0, 5, 10, 15, 30 and 60 minutes of 0.1 nM TNF treatment of KBM-5 cells shows inducible phosphorylation using phospho specific polyclonal anti-human pS529 p65. Anti-beta-actin staining confirms loading of equivalent amounts of protein. HRP conjugated Gt-anti-Rabbit IgG used to develop blot using a chemiluminescent detection method. Other detection methods will yield similar results.



Western Blot: RelA/NFκB p65 [p Ser529] Antibody [NBP1-77808] - pS529 shows phospho p65 staining in carcinoma cells. western blot of total protein lysates from various human head and neck tumors shows phospho p65 staining in tumor cell lines using phospho specific polyclonal anti-human pS529 p65. Lanes 1-6 contain protein lysates from human squamal carcinoma cell lines. Lane 7 is a protein lysate from a primary culture of human keratinocytes. Lane 8 contains protein lysate from ATCC SCC9 cells (also a head and neck squamal carcinoma). Lane 9 contains lysate from EGF-induced human derived A431 cells. Lane 10 (not shown) contains a molecular weight standard. Concurrent staining with anti-beta microtubulin (not shown) was used to confirm equal protein loading in all lanes. HRP conjugated Gt-anti-Rabbit IgG was used to develop the blot using a chemiluminescent detection method.



Western Blot: RelA/NFκB p65 [p Ser529] Antibody [NBP1-77808] - TNF Induces phosphorylation of p65 in KBM-5 cells. Cytoplasmic and nuclear protein lysates prepared after 0, 5, 10, 15, 30 and 60 minutes of 0.1 nM TNF treatment of KBM-5 cells shows inducible phosphorylation using phospho specific polyclonal anti-human pS276 p65. Pan reactive anti p65 (NBP1-77808) was used a control to show the presence of total p65 in both the cytoplasmic and nuclear extracts. Phosphorylation of p65 occurs after approximately 10 min of TNF exposure. Migration of phosphorylated p65 into the nucleus occurs within a similar time frame. HRP conjugated Gt-anti-Rabbit IgG was used to develop the western blot using a chemi-luminescent detection method.



## Publications

Shakibaei M, Buhrmann C, Mobasheri A et al. Anti-inflammatory and anti-catabolic effects of TENDOACTIVE on human tenocytes in vitro. *Histol Histopathol* 2011-09-01 [PMID: 21751149]

Castier Y, Ramkhelawon B, Riou S et al. Role of NF-kappaB in flow-induced vascular remodeling. *Antioxid Redox Signal* 2009-07-01 [PMID: 19320561]

Zhao L, Lee JY, Hwang DH et al. The phosphatidylinositol 3-kinase/Akt pathway negatively regulates Nod2-mediated NF-kappaB pathway. *Biochem Pharmacol* 2008-04-01 [PMID: 18243161]

Shakibaei M, John T, Schulze-Tanzil G et al. Suppression of NF-kappaB activation by curcumin leads to inhibition of expression of cyclo-oxygenase-2 and matrix metalloproteinase-9 in human articular chondrocytes: Implications for the treatment of osteoarthritis. *Biochem Pharmacol.* 2007-05-01 [PMID: 17291458]

Ashikawa K, Majumdar S, Banerjee S et al. Piceatannol inhibits TNF-induced NF-kappaB activation and NF-kappaB-mediated gene expression through suppression of IkkappaBalpha kinase and p65 phosphorylation. *J Immunol.* 2002-12-01 [PMID: 12444159]

Lu SM, Tremblay MÈ, King IL et al. HIV-1 Tat-induced microgliosis and synaptic damage via interactions between peripheral and central myeloid cells. *PLoS One* 2011-01-01 [PMID: 21912650]





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### **Products Related to NBP1-77808**

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NBP1-97000	RelA/NFkB p65 [p Ser529] Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24987-5ug	Recombinant Human RelA/NFkB p65 Protein

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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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