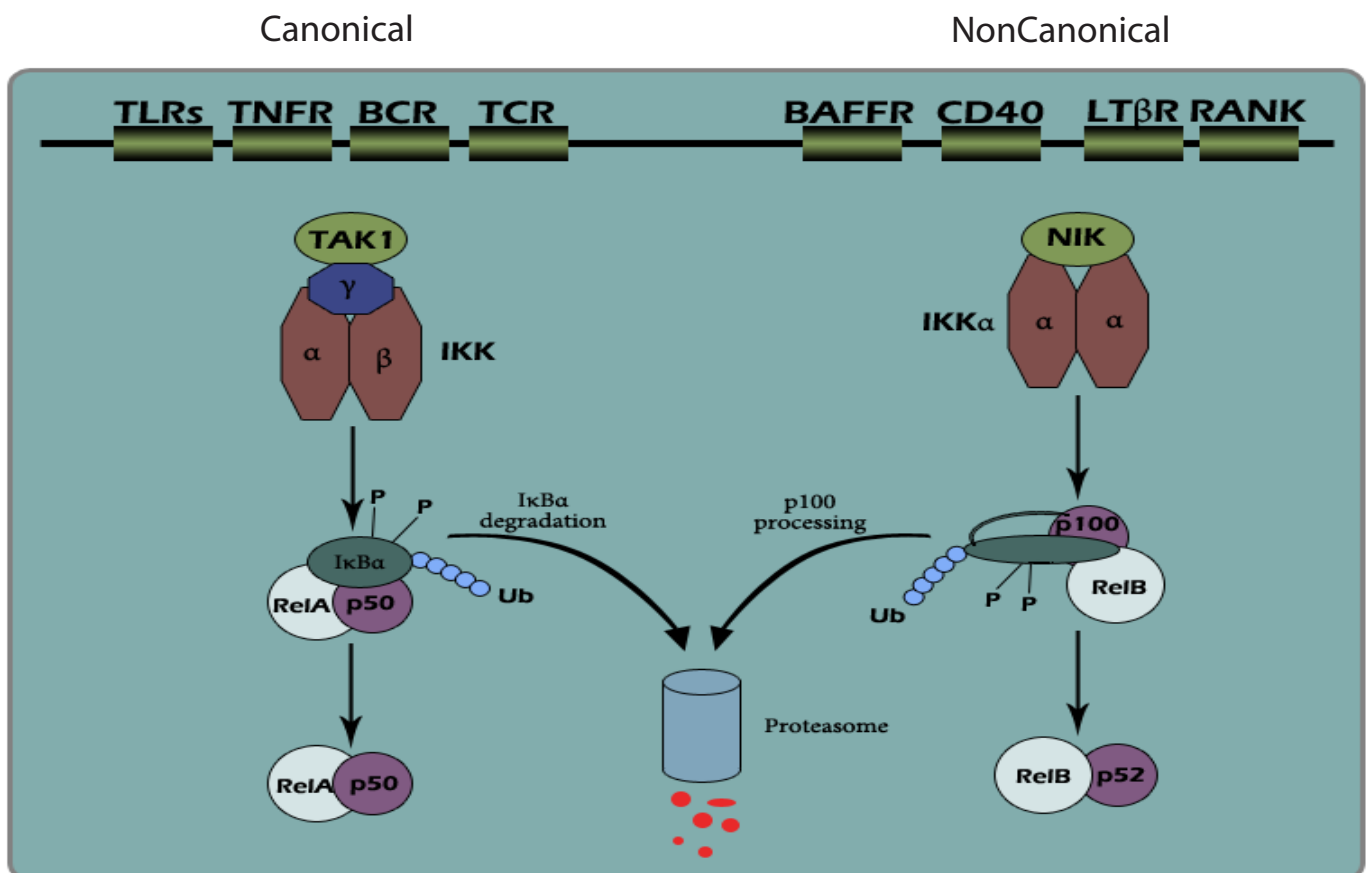


NF-κB Signaling

Nuclear factor-kappa B (NF-κB) is a very important transcription factor that regulates key genes involved in inflammation, tumorigenesis, apoptosis, autoimmune disorders, and inflammation. NF-κB is activated in response to proinflammatory cytokines, stress, UV rays, lymphokines, viral antigens etc. This transcription factor in its inactive form is generally sequestered in the cytoplasm, bound to inhibitor of kappa B (IκB). NF-κB is a fast-acting transcription factor because it does not have to be transcribed and translated after the harmful cellular stimuli, as it is already present in the cytoplasm. Appropriate stimuli for e.g. binding of the bacterial antigen LPS (lipopolysaccharide) to its Toll-like-receptors (TLR), or tumor necrosis factor (TNF) binding to its receptor TNFR etc. initiates the signaling pathway. The nuclear localization signal (NLS) of NF-κB is masked by its binding to IκB in the cytoplasm. In the presence of appropriate stimuli, the IκB kinase (IKK) phosphorylates serine residues on IκB's, which are then degraded by ubiquitination. With the exposed NLS, the NF-κB now translocates into the nucleus, where it binds to specific cis-acting elements on specific genes, thereby resulting in their transcription. These genes are responsible for key physiological responses like cell survival, proliferation, inflammatory or immune response. NF-κB also regulates the expression of IκB which is transcribed and translated. This newly formed IκB now sequesters NF-κB again into the cytoplasm, thereby resulting in a feed-back loop.

Since NF-κB is so actively involved in a number of key events like cell proliferation and cell survival, many cancer cells have constitutively active NF-κB with mutations. Specifically blocking its expression in tumor cells may cause these active proliferating cells to die. Hence, currently, several pharmaceutical companies have active programs to develop anti-cancer and anti-inflammatory drugs that function via blockade of the NF-κB signaling pathway.

Canonical & Non-Canonical NF-κB Signaling Pathways



155 S. Milpitas Blvd, Milpitas, CA 95035

T: 408-493-1800 F: 408-493-1801

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Antibodies

Product Name	Cat. No.	Size
Anti-Angiopoietin-2 Antibody	A1291	100 µg
CIKS/Act1 Antibody	3314	100 µg
IκBα Antibody	3252	100 µg
IκBα Antibody	3315	100 µg
IKKα/IKK-1 Antibody	3185	100 µg
IRAK-4 Antibody	3580	100 µg
MYD88 Antibody	3244R	30 µg, 100 µg
NFκB Blocking Peptide	3038BP	50 µg
NFκB p105 Antibody	3897	30 µg, 200 µg
NFκB p105 Blocking Peptide	3897BP	50 µg
NFκB p50 Antibody	3354R	30 µg, 100 µg
NFκB p50 Blocking Peptide	3354RBP	50 µg
NFκB p65 Antibody	3012	100 µg
NFκB p65 Antibody	3038	30 µg, 100 µg
NIK Antibody	3193R	30 µg, 100 µg
NIK Blocking Peptide	3193RBP	50 µg
PAK1 Antibody	3908	30 µg, 100 µg
TANK Polyclonal Antibody	3348	30 µg, 100 µg
TLR1 Antibody	3446	100 µl
TLR10 Antibody	3932	30 µg, 100 µg
TLR10 Blocking Peptide	3932BP	50 µg
TLR11 Antibody	3931	30 µg, 100 µg
TLR11 Blocking Peptide	3931BP	50 µg
TLR2 Antibody	3552R	30 µg, 100 µg
TLR2 Antibody	3569	30 µl, 100 µl
TLR2 Blocking Peptide	3552RBP	50 µg
TLR3 Antibody	3445R	30 µg, 100 µg
TLR3 Blocking Peptide	3445BP	50 µg
TLR3 Polyclonal Antibody	3445	50 µg, 100 µg
TLR4 Antibody	3251	100 µg
TLR4 Antibody	3253	30 µg, 100 µg
TLR4 Blocking Peptide	3253BP	50 µg
TLR5 Antibody	3555R	30 µg, 100 µg
TLR5 Blocking Peptide	3555RBP	50 µg
TLR7 Antibody	3557	100 µl
TLR8 Antibody	3558	100 µl
TLR9 Antibody	3559R	30 µg, 100 µg
TLR9 Blocking Peptide	3559RBP	50 µg
TNF-α Antibody	3052R	30 µg, 100 µg
TNF-α Antibody	3053R	30 µg, 100 µg
TNF-α Antibody	3054	30 µg, 100 µg
TRAF3 Antibody	3563	30 µg, 100 µg
TRAF6 Antibody	3566R	30 µg, 100 µg
TreakR Antibody	3564	100 µg
TROY/TAJ Antibody	3562R	30 µg, 100 µg

Proteins/Enzymes

Product Name	Cat. No.	Size
AITRL, Human Recombinant	7113	10 µg, 50 µg
Amphiregulin, Human Recombinant	7114	10 µg, 50 µg
ANG-1, Human Recombinant	7115	10 µg, 50 µg
ANG-2, Human Recombinant	7116	10 µg, 50 µg
Human CellExp™ Angiopoietin-2, human recombinant	7395	10 µg, 50 µg
Human CellExp™ ANGPTL7 / CDT6, Human Recombinant	P1169	10 µg, 50 µg
APRIL, Human Recombinant	7117	10 µg, 50 µg
APRIL, Mouse Recombinant	7118	10 µg, 50 µg
Human CellExp™ BAFF, human recombinant	7222	10 µg
Betacellulin, Murine Recombinant	7119	10 µg, 50 µg
EGF Receptor, human recombinant	7135	10 µg, 50 µg
Human CellExp™ EGF, human recombinant	7228	10 µg
Human CellExp™ EGFR/ErbB1, human recombinant	7396	10 µg
Human CellExp™ EGFRvIII, human recombinant	P1082	10 µg
Enterokinase, human recombinant	7136	10 µg, 50 µg
Enterokinase, Light Chain, human recombinant	7529	10 µg, 50 µg, 500 µg
Human CellExp™ ErbB1/EGFR, mouse recombinant	7402	10 µg
Human CellExp™ ErbB2 / HER2 / CD340, human recombinant	7397	10 µg, 50 µg
Human CellExp™ ErbB3/HER3, human recombinant	7400	10 µg, 50 µg
Human CellExp™ ErbB4/HER4, human recombinant	7401	10 µg, 50 µg
Human CellExp™ Fetuin A/ASHG, Human Recombinant	7142	10 µg, 50 µg
Human CellExp™ Her2/ErbB2, Extracellular Domain (ED), Human Recombinant	P1160	10 µg, 50 µg
Human CellExp™ HGFR/c-MET, human recombinant	7393	20 µg, 100 µg
Human CellExp™ IL-17E, human recombinant	7224	10 µg
RIPK2, Active	7747	5 µg
sFas Ligand, human recombinant	7140	10 µg, 50 µg
sFas Receptor, human recombinant	7141	10 µg, 50 µg
sTRAIL Receptor-1/DR4, human recombinant	7206	10 µg, 50 µg
TACI, human recombinant	7212	10 µg, 50 µg
TL-1A, human recombinant	7219	10 µg, 50 µg
Human CellExp™ TLR-3, Human Recombinant	7220	10 µg, 50 µg
Human CellExp™ TNF-alpha, Human Recombinant	6482	10 µg, 50 µg
TRAIL, murine recombinant	7205	10 µg, 50 µg

Inhibitors

Product Name	Cat. No.	Size	CAS No.
A77 1726	1973	5 mg, 25 mg	108605-62-5
Amlξανox	2336	10 mg, 50 mg	68302-57-8
Andrographolide	2389	50 mg, 250 mg	5508-58-7
BAY 11-7082	1867	10 mg, 50 mg	19542-67-7
Berberamine dihydrochloride	2520	100 mg, 500 mg	6078-17-7
Celastrol	1940	5 mg, 25 mg	34157-83-0
Honokiol	1762	10 mg, 50 mg	35354-74-6
IKK16	B1087	5 mg, 25 mg	1186195-62-9
IKK-ε Kinase Inhibitor II	1811	1 mg, 5 mg	862812-98-4

Inhibitors

Product Name	Cat. No.	Size	CAS No.
ML130	1974	5 mg, 25 mg	799264-47-4
NF- κ B Inhibitor, SN50	2506	500 μ g, 1 mg	213546-53-3
Parthenolide	1868	10 mg, 50 mg	20554-84-1
PDTC	1676	100 mg	5108-96-3
Rocaglamide	1863	100 μ g	84573-16-0
Triptolide	1761	1 mg, 5 mg	38748-32-2

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