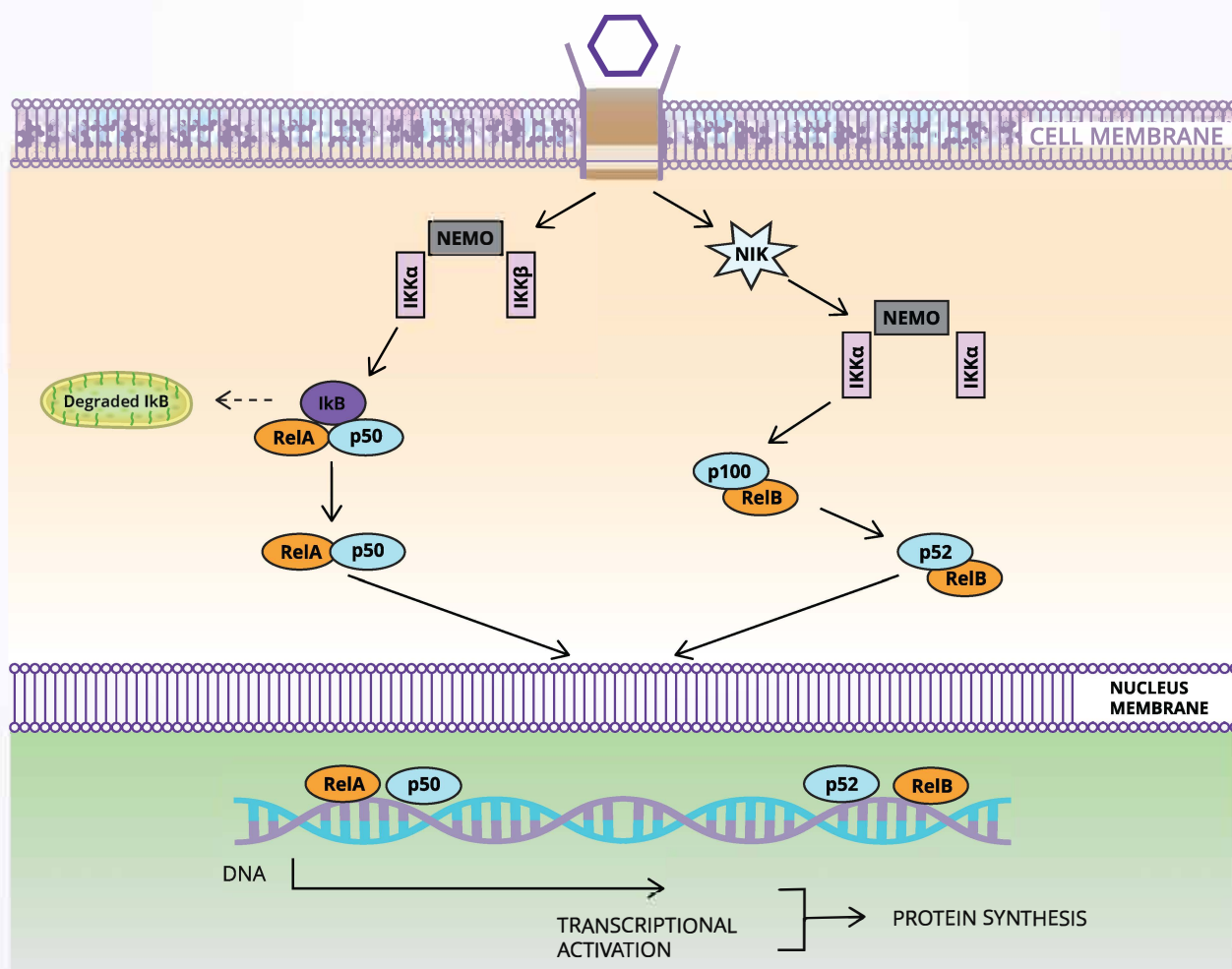


NF-κB Signaling Pathway

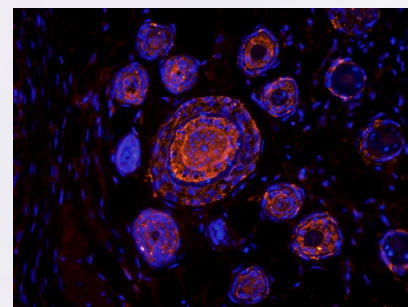
Transcriptional programs regulated by NF-κB are essential to the development and maintenance of the immune system, skeletal system and epithelium. In these settings, NF-κB contributes to the control of cell survival, differentiation and proliferation. Aberrant activation of NF-κB has been associated with numerous diseases such as cancer, autoimmune disease, neurodegenerative diseases and cardiovascular disease. The NF-κB signaling pathway is most characterized and well understood in its role in chronic inflammation and auto-immune disease. NF-κB proteins are characterized by the presence of a 300-amino acid sequence on the N-terminus called the Rel homology domain (RHD). Five members comprise the NF-κB protein family: RelA/p65, RelB, c-Rel, p50 and p52. These proteins bind to κB sites as homo- or hetero- dimers which can have a positive or negative impact on gene transcription. There are two types of NF-κB signaling pathway: canonical and non-canonical. Both require activation through post translational modifications of IκB inhibitors. Canonical pathway activation predominantly occurs through BCR, TCR, TLR4, IL-1R or TNF-R receptors, whereas the non-canonical pathway involves receptor activation of CD40L, BAFF or lymphotoxin-B.



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NF- κ B Pathway products

Catalogue code	Description	Product Type
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orb315813	RELB (Phospho-S573)	Antibody
orb406416	Human NF κ B p65	ELISA Kit
orb338911	IKK alpha/beta	Antibody
orb214798	IKBKG	Antibody
orb341678	BMS-345541	Small Molecule
orb322634	Resveratrol	Small Molecule

NF- κ B Pathway References

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- Freitas R.H.C.N., Fraga C.A.M. NF- κ B- $\text{IKK}\beta$ pathway as a target for drug development: realities, challenges and perspectives. *Curr Drug Targets*. (2018) Feb 19. doi: 10.2174/1389450119666180219120534.

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