

NF Kappa B/p50 Antibody

Datasheet

For Research Use Only

Description		Catalog No.	Size
NF Kappa B/p50	Concentrate	FP-A087-01	0.1 ml
NF Kappa B/p50	Concentrate	FP-A087-10	1 ml
NF Kappa B/p50	Predilute	FP-A087-70	7 ml
NF Kappa B/p50	Predilute	FP-A087-250	25 ml

Description

NF Kappa B/p50 or NFκB1 is one of five transcription factors belonging to the Nuclear Factor-κB (NFκB) family, which is involved in a number of physiological and pathological processes such as inflammatory and immune response, as well as cellular proliferation, differentiation, survival, and apoptosis. p50 has been specifically linked to transcription of IL-10, and is unique in that it lacks a transactivation domain. Overexpression of NF Kappa B/p50 has been associated with lipopolysaccharide tolerance in human monocytes, thereby blocking tumour necrosis factor gene expression. Increased expression of nuclear p50 is also correlated with chemoresistance and the prognosis of serous epithelial ovarian cancer. Polymorphisms in NFκB1 have been clinically linked to increased susceptibility to coronary artery disease.

Specifications

Clone	IHC050
Source	Mouse Monoclonal
Applications	IHC (P)
Formulation	Tris Buffer, pH 7.3 - 7.7, with 1% BSA and <0.1% Sodium Azide

IHC Procedure*

Positive Control Tissue	Testes
Dilution Range	1:50– 1:200
Pretreatment	Perform heat-induced epitope retrieval (HIER) at pH for 10 to 30 minutes
Incubation Time and Temp	10 to 30 minutes at room temperature
Detection	Refer to the corresponding user manual for detection system

Result

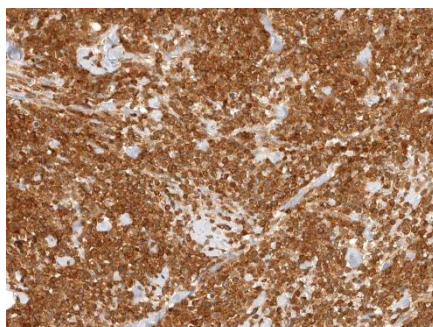


Figure. NF Kappa B/p50 B on Lymphoma

Storage and Handling

Must store the reagent at 2-8 °C. Do not freeze. Do not use the reagent after expiration date on vial. To ensure proper stability and delivery of the antibody after each run, replace the cap and immediately place the bottle in a refrigerator in an upright position. Positive and negative controls should be simultaneously run with unknown specimens, as there are no conclusive characteristics to suggest instability of the antibody.

Precautions

The product is for research use only. Do not use for diagnosis purpose. Ensure proper handling procedures are used with all reagents. Always wear laboratory coats, disposable gloves, and other appropriate laboratory equipment when handling reagents. Do not ingest reagents, and avoid contact with eyes and mucous membranes. Wash eyes with copious amounts of water if contact occurs.

References

1. **Yonghui Y**, et al. “The biological functions of NF-kappaB1 (p50) and its potential as an anti-cancer target.” *Curr Cancer Drug Targets*. 2009; 9:566-71.
2. **Cao S**, et al. “NF-kappaB1 (p50) homodimers differentially regulate pro- and anti-inflammatory cytokines in macrophages.” *J Biol Chem*. 2006 Sep 8;281(36):26041-50. Epub 2006 Jul 11.
3. **Kastenbauer S**, et al. “NF-kappaB1 (p50) is upregulated in lipopolysaccharide tolerance and can block tumor necrosis factor gene expression.” *Infect Immun*. 1999 Apr;67(4):1553-9.
4. **Shuang T**, et al. “Over-expression of nuclear NF-κB1 and c-Rel correlates with chemoresistance and prognosis of serous epithelial ovarian cancer.” *Exp Mol Pathol*. 2016; 100:139-44.
5. **Guo XL**. “Association of NF-κB1 gene polymorphisms with coronary artery disease in a Han Chinese population.” *Genet Mol Res*. 2016 Jul 29;15(3). doi: 10.4238/gmr.15038072.

Technical Support

Contact FemtoPath Technical Support at +886232338585 or email to femtopath@hongjing.com.tw for assistance with more questions regarding this product.