

## Product datasheet for **TA507178**

### **IKB alpha (NFKBIA) Mouse Monoclonal Antibody [Clone ID: OTI2F5]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI2F5
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	WB 1:4000, IHC 1:150, IF: 1:100
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human NFKBIA(NP_065390) produced in HEK293T cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	1 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	35.4 kDa
<b>Gene Name:</b>	NFKB inhibitor alpha
<b>Database Link:</b>	<a href="#">NP_065390</a> <a href="#">Entrez Gene 18035 Mouse</a> <a href="#">Entrez Gene 25493 Rat</a> <a href="#">Entrez Gene 4792 Human</a> <a href="#">P25963</a>
<b>Background:</b>	This gene encodes a member of the NF-kappa-B inhibitor family, which contain multiple ankrin repeat domains. The encoded protein interacts with REL dimers to inhibit NF-kappa-B/REL complexes which are involved in inflammatory responses. The encoded protein moves between the cytoplasm and the nucleus via a nuclear localization signal and CRM1-mediated nuclear export. Mutations in this gene have been found in ectodermal dysplasia anhidrotic with T-cell immunodeficiency autosomal dominant disease. [provided by RefSeq, Aug 2011]



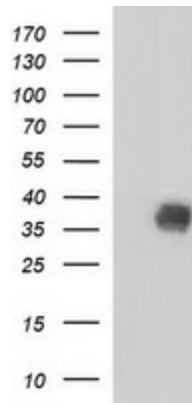
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**Synonyms:** IKBA; MAD-3; NFKBI

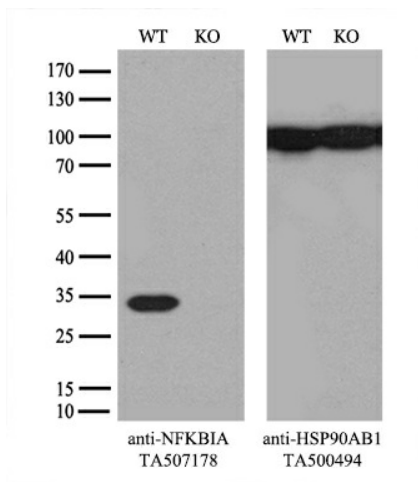
**Protein Families:** Druggable Genome

**Protein Pathways:** Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway

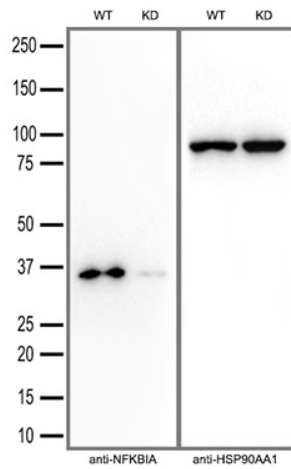
**Product images:**



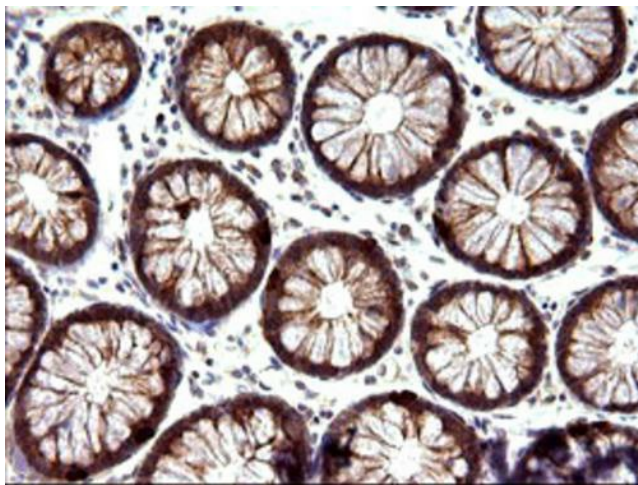
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NFKBIA (Cat# [RC200711], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NFKBIA (Cat# TA507178). Positive lysates [LY412432] (100ug) and [LC412432] (20ug) can be purchased separately from OriGene.



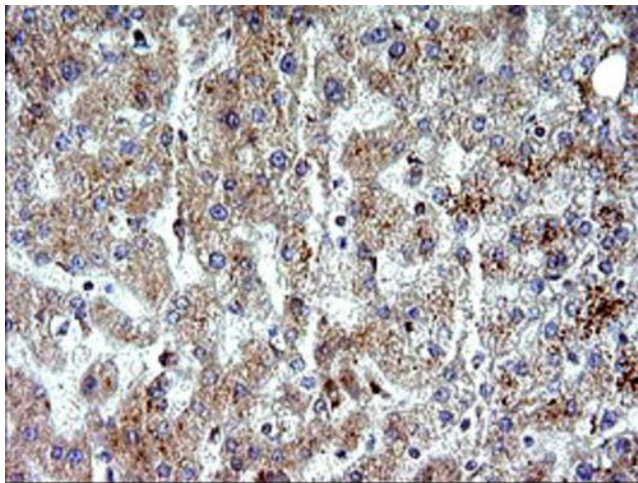
Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and NFKBIA-Knockout 293T cells (KO, Cat# [LC842257]) were separated by SDS-PAGE and immunoblotted with anti-NFKBIA monoclonal antibody TA507178, (1:500). Then the blotted membrane was stripped and reprobed with anti-b-actin antibody ([TA811000]) as a loading control.



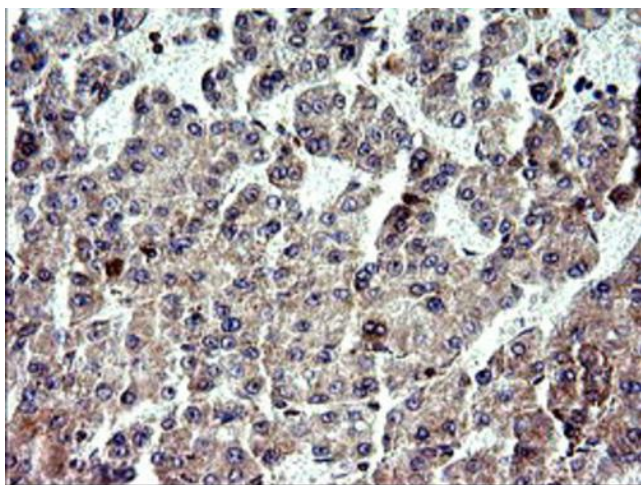
Equivalent amounts of cell lysates (30 ug per lane) of wild-type HeLa cells(WT) and NFKBIA-Knockdown HeLa cells(KD) were separated by SDS-PAGE and immunoblotted with anti-NFKBIA monoclonal antibody TA507178(1:5000).Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.



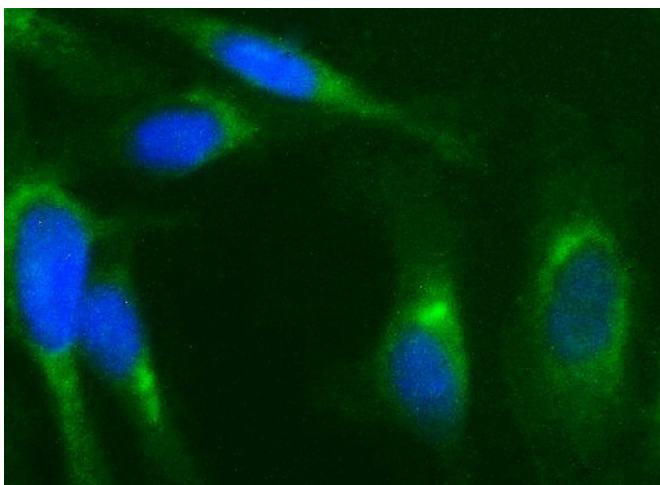
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-NFKBIA mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-NFKBIA mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-NFKBIA mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunofluorescent staining of HeLa cells using anti-NFKBIA mouse monoclonal antibody (TA507178).