

## Product datasheet for **TA507172AM**

### **IKB alpha (NFKBIA) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI1D4]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI1D4
<b>Applications:</b>	IF, WB
<b>Recommended Dilution:</b>	WB 1:400-1:2000, 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>	0.5 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Biotin
<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]



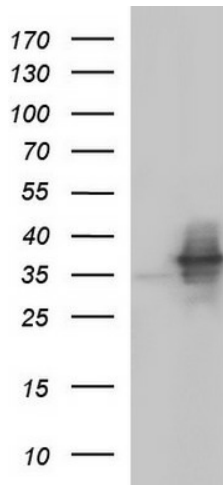
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**Synonyms:** IKBA; MAD-3; NFKBI

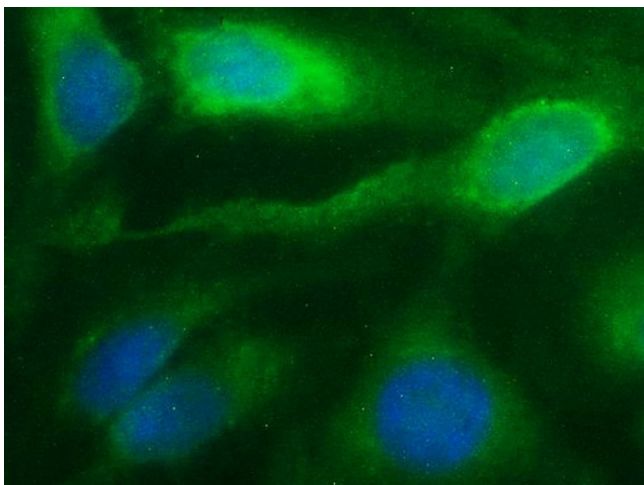
**Protein Families:** Druggable Genome

**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

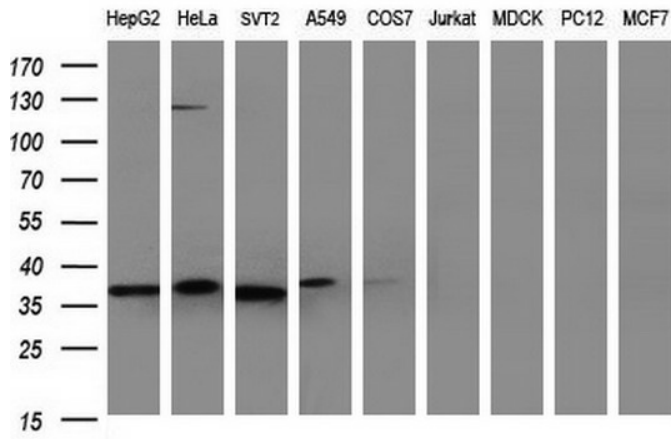
**Product images:**



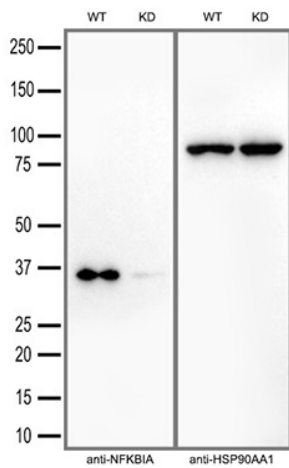
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NFKBIA ([RC200711], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NFKBIA. Positive lysates [LY412432] (100ug) and [LC412432]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



Immunofluorescent staining of HeLa cells using anti-NFKBIA mouse monoclonal antibody ([TA507172]).



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NFKBIA monoclonal antibody (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: human; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



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 [TA507172](1:2500). Then the blotted membrane was stripped and reprobed with anti-HSP90AA1 antibody as a loading control.