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Datasheet for 600-401-BW6

IL-32 Antibody

Overview

Description:	Anti-IL-32 (RABBIT) Antibody - 600-401-BW6
Item No.:	600-401-BW6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Interleukin-32 (IL-32) was initially identified as a transcript (NK4) that is selectively expressed in lymphocytes and NK cells and whose expression is increased following activation by IL-2. It was later re-isolated from an IL-18-treated lung carcinoma cell line and re-named IL-32. IL-32 is unusual in that it does not share sequence homology with known cytokine families and is highly expressed in immune tissues, existing in at least four differentially spliced isoforms. Because treatment of human monocytic and mouse macrophage cells with IL-32 induces several proinflammatory cytokines such as TNF-a, IL-8 and MIP-2, and because it is also induced in human peripheral lymphocyte cells after mitogen stimulation and in epithelial cells by IFN-gamma, it has been suggested that IL-32 may play a role in autoimmune and inflammatory diseases such as rheumatoid arthritis.
Synonyms:	IL-32 Antibody, NK4, TAIF, TAIFa, TAIFb, TAIFc, TAIFd, IL-32beta, IL-32alpha, IL-32delta, IL-32gamma, NK4, Interleukin-32, Natural killer cells protein 4, IL-32
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL32
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IL-32 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the C-terminus of human IL-32.
Purity/Specificity:	Anti-IL-32 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody detects all isoforms of IL-32.
Relevant Links:	• UniProtKB - P24001 • GeneID - 9235 • NCBI - AAH09401

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IL-32 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 26 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:100,000
IF:	20 µg/mL
IHC:	10 µg/mL
WB:	5-10 µg/mL

Formulation

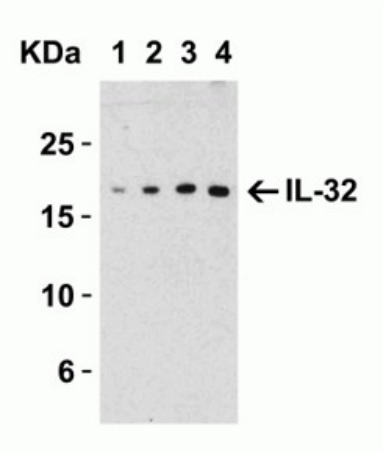
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

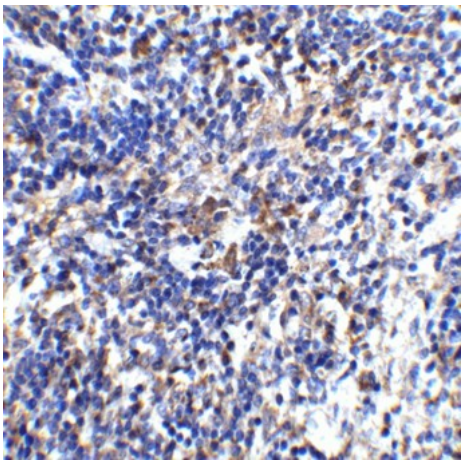
Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

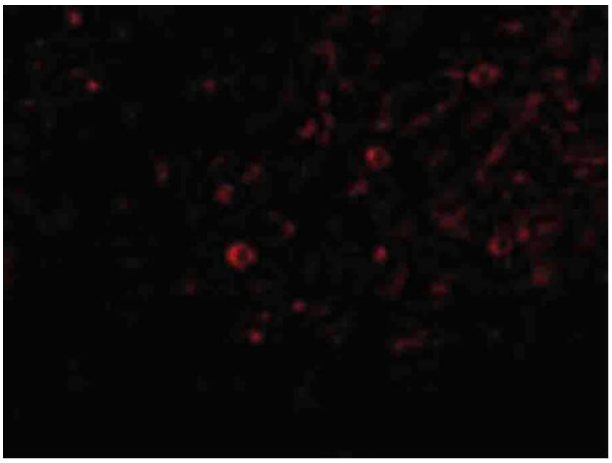
Images



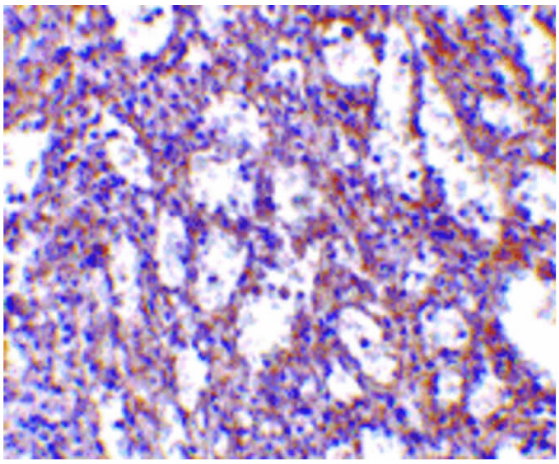
Western Blot
Western Blot Validation with Recombinant Protein. Loading: 30 ng of human IL-32 recombinant protein per lane. Antibodies: IL-32, (Lane 1: 0.5 µg/mL, Lane 2: 1.0 µg/mL, Lane 3: 2.0 µg/mL, Lane 4: 4.0 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Observed at around 17kD.



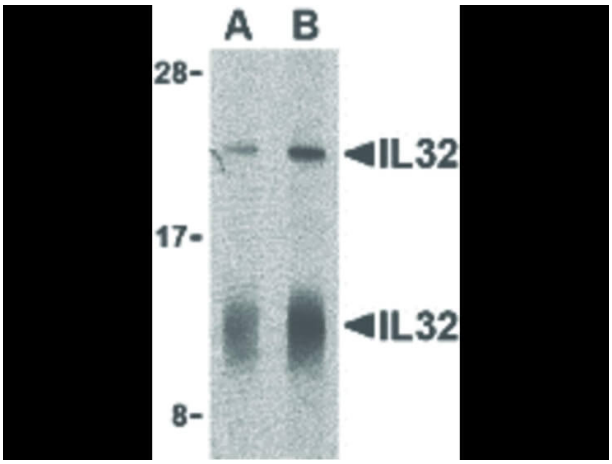
Immunohistochemistry
Immunohistochemistry Validation of IL-32. Immunohistochemical analysis of paraffin-embedded mouse spleen tissue using anti-IL-32 antibody at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of IL-32 antibody. Cell Type: Human spleen cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IL-32 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IL-32 is secreted. Staining: IL-32 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of IL-32 antibody. Tissue: human spleen tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IL-32 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IL-32 is secreted. Staining: IL-32 is stained with toluidine blue.



Western Blot
Western Blot of IL-32 antibody in human spleen lysate. Lane 1: IL-32 antibody at 5 µg/mL shows two isoforms of IL-32. Lane 2: IL-32 antibody at 10 µg/mL shows two isoforms of IL-32. Load: 35 µg per lane. Primary antibody: IL-32 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 128 kDa, 128 kDa for IL-32. Other band(s): IL-32 splice variants and isoforms.

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