Product Datasheet

EI24 Antibody - BSA Free
NBP2-13949

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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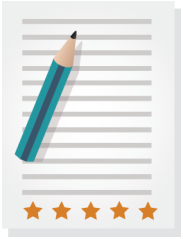
Updated 3/4/2026 v.20.1



NBP2-13949

EI24 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description

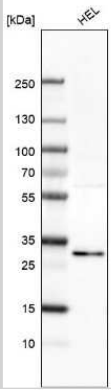
Host	Rabbit
Gene ID	9538
Gene Symbol	EI24
Species	Human
Immunogen	This antibody was developed against a recombinant protein corresponding to the amino acids: GIKDSIWGICTISKLDARIQQKREEQRRRRASSVLAQRRAQSIERKQESEPRIVSRI

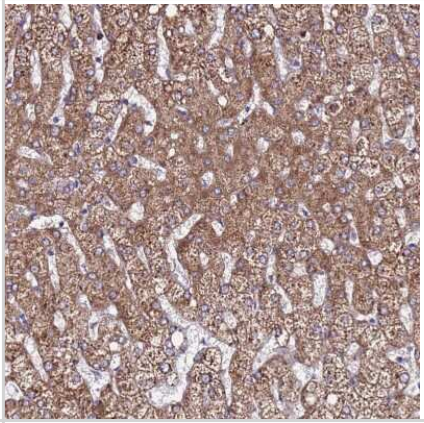
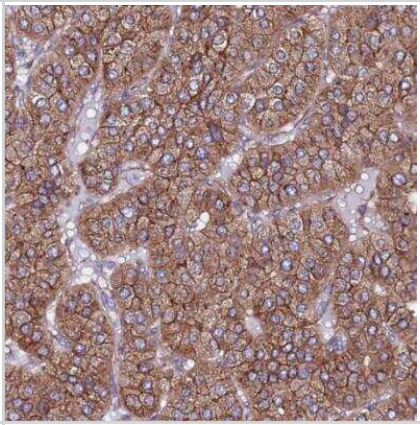
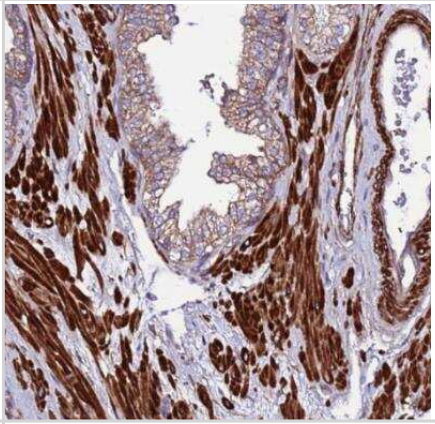
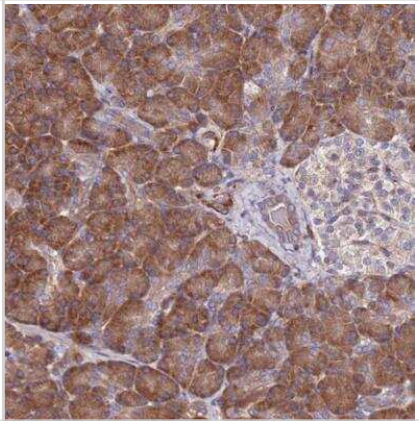
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. Use in ICC/IF was reported in scientific literature (PMID: 31396480).

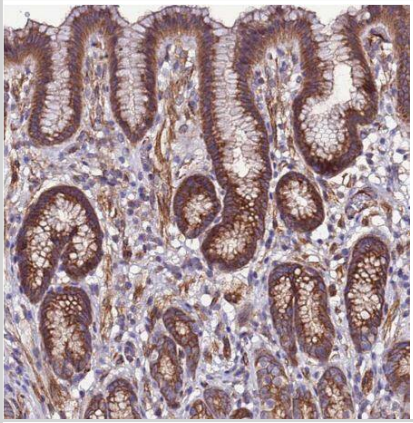
Images

Western Blot: EI24 Antibody [NBP2-13949] - Analysis in human cell line HEL.

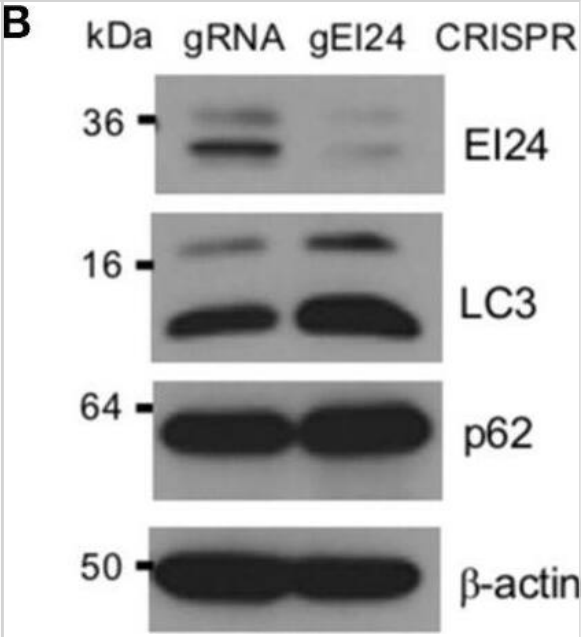


Immunohistochemistry-Paraffin: EI24 Antibody [NBP2-13949] - Staining of human liver shows strong cytoplasmic granular positivity in hepatocytes.	
Immunohistochemistry-Paraffin: EI24 Antibody [NBP2-13949] - Staining of human parathyroid gland shows strong cytoplasmic granular positivity in glandular cells.	
Immunohistochemistry-Paraffin: EI24 Antibody [NBP2-13949] - Staining of human prostate shows strong cytoplasmic positivity in smooth muscle cells.	
Immunohistochemistry-Paraffin: EI24 Antibody [NBP2-13949] - Staining of human pancreas shows strong cytoplasmic granular positivity in exocrine glandular cells.	

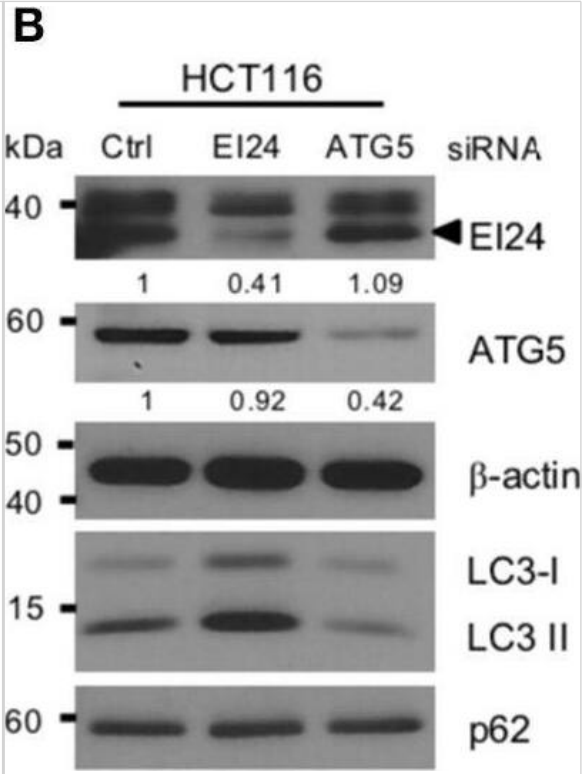
Immunohistochemistry-Paraffin: EI24 Antibody [NBP2-13949] -Staining of human stomach shows strong cytoplasmic granular positivity in glandular cells.



Western Blot: EI24 Antibody [NBP2-13949] - Loss of EI24 expression using CRISPR-Cas9 in MIA PaCa-2 cells decreased cell proliferation. MIA PaCa-2 cells were transfected with CRISPR-Cas9 control (gRNA) & EI24 gRNA (gEI24) using a lentiviral system. (A) After 48 h of incubation, EI24 protein expression was observed by immunofluorescence staining using an anti-EI24 antibody. (B) After 48 h of incubation, the EI24 protein level was observed by western blotting using an anti-EI24 antibody. Conversion of LC3-I to LC3-II & p62 accumulation were analyzed by western blotting using anti-LC3 & anti-p62 antibodies, respectively. Graphs represent the mean ± SEM of EI24, LC3-II, & p62 densitometry value to that of β-actin (with gRNA values set to 1) from three independent experiments. Comparison were made using Student's t-test, *P < 0.05; **P < 0.01; ***P < 0.001. (C) After 24 h of incubation, cells were seeded into a 96-well plate (1,000 cells/well). Images acquired by the IncuCyte instrument at the indicated times were analyzed using the ZOOM 2016 program. Confluency was measured in triplicate wells for each sample. Values represent the means ± SEM (Student's t-test, *P < 0.05; **P < 0.01; ***P < 0.001). (D) Control & EI24 gRNA-transfected cells (5 × 106) were injected into both flanks of Balb/c nude mice. Tumor volume was measured on the indicated days. The y-axes of these graphs represent the fold change in tumor size relative to the initial tumor size. Values represent means ± SEM. (Student's t-test, n.s., not significant, control gRNA mice, n = 5; EI24 gRNA mice, n = 4). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31396480), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Western Blot: EI24 Antibody [NBP2-13949] - Loss of EI24 expression in HCT116 cells impairs autophagy but not cell proliferation. HCT116 cells were transfected with 10 nM control siRNA (siCtrl) or siRNA targeting EI24 or ATG5. (A) The mRNA levels of EI24, ATG5, & GAPDH were analyzed by reverse-transcription PCR. (B) The protein levels of EI24 ATG5 & β-actin were analyzed by western blotting. Representative data are shown. Values represent the ratio of the EI24 or ATG5 densitometry value to that of β-actin (with siCtrl values set to 1). Conversion of LC3-I to LC3-II & p62 accumulation were analyzed by western blotting using anti-LC3 & anti-p62 antibodies, respectively. Graphs represent mean ± SEM of the LC3-II & p62 densitometry value to that of β-actin (with siCtrl values set to 1) from three independent experiments. Comparison were made using Student's t-test, *P < 0.05; **P < 0.01. (C) After 24 h of transfection, cells were seeded into a 6-well plate & incubated for another 7 days. Cells were fixed & stained with crystal violet. (D) After 24 h of transfection, cells were seeded into a 96-well plate. Images acquired from the IncuCyte instrument at the indicated times were analyzed using the ZOOM 2016 program. Cell confluency was measured in triplicate wells for each sample. The plotted values represent means ± SEM. (E) Protein extracts from siRNA-transfected cells were analyzed for DNA fragmentation. The y-axes of the graphs indicate the extent of DNA fragmentation. Values plotted in the graphs represent means ± SEM (Student's t-test, n.s., not significant). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/31396480), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Hwang M, Jun DW, Kang EH et al. EI24, as a Component of Autophagy, Is Involved in Pancreatic Cell Proliferation Front Oncol 2019-07-23 [PMID: 31396480] (ICC/IF, Human)

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NBP2-13949PEP	EI24 Recombinant Protein Antigen
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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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