Product Datasheet

ATG13 [p Ser355] Antibody
NBP2-19127

Unit Size: 0.1 mg

Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.

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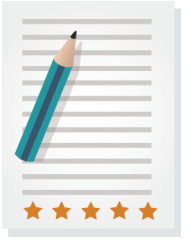


NBP2-19127

ATG13 [p Ser355] Antibody

Product Information

Unit Size	0.1 mg
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C short term. Aliquot and store at -80C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.01% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Product Description

Description	This affinity-purified antibody directed against the phosphorylated form of human ATG13 protein isoform 1 at the [p Ser355] residue, and to isoforms 2 and 3 at the [p Ser318] residue (Uniprot: O75143). The product was affinity purified from monospecific antiserum by immunoaffinity purification. Antiserum was first purified against the phosphorylated form of the immunizing peptide. The resultant affinity purified antibody was then cross adsorbed against the non-phosphorylated form of the immunizing peptide. Store vial at -20C prior to opening. Aliquot contents and freeze at -20C 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 4C as an undiluted liquid. Dilute only prior to immediate use.
Host	Rabbit
Gene ID	9776
Gene Symbol	ATG13
Species	Human, Mouse
Reactivity Notes	A BLAST analysis was used to suggest cross reactivity with ATG13 from human based on 100% sequence homology with the immunogen. Reactivity against homologues from other sources is not known. Mouse reactivity reported in scientific literature (PMID: 31428575).
Specificity/Sensitivity	This affinity-purified antibody directed against the phosphorylated form of human ATG13 protein isoform 1 at the [p Ser355] residue, and to isoforms 2 and 3 at the [p Ser318] residue (Uniprot: O75143). Reactivity occurs against human ATG13 [p Ser355] protein and the antibody is specific for the phosphorylated form of the protein. Reactivity with non-phosphorylated human ATG13 is minimal by ELISA and western blot.
Immunogen	ATG13 [p Ser355] Antibody was prepared by repeated immunizations with a synthetic peptide corresponding to the region near Ser355 of ATG13. (Uniprot: O75143)

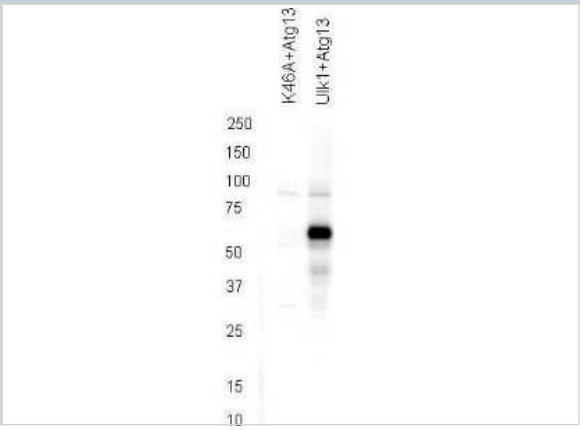
Product Application Details

Applications	Western Blot, ELISA, Flow Cytometry, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000, Flow Cytometry 1:10-1:1000, ELISA 1:25000-1:175000, Knockdown Validated

Application Notes	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 56.6 kDa in size corresponding to human phosphorylated ATG13 protein by western blotting in the appropriate stimulated tissue or cell lysate or extract.

Images

Western Blot: ATG13 [p Ser355] Antibody [NBP2-19127] - Antibody shows detection of phosphorylated ATG13 in 293T cells engineered to coexpress Ulk1 and Atg13. In the left lane was loaded kinase-dead hypophosphorylated Ulk1-K46A mutant + ATG13. The right lane contains the 293T Ulk1 + ATG13 lysate and shows detection at approximately 57 kDa. The antibody was purified and resolved by SDS-PAGE, then transferred to nitrocellulose membrane. The membrane was blocked with 5% Blocking Buffer and probed with the primary antibody at 1ug/mL overnight at 4C. After washing, the membrane was probed with Goat Anti-Rabbit HRP secondary 1:5000 in detection buffer for 45 minutes at room temperature.



Publications

Dent P, Booth L, Poklepovic A, Kirkwood JM Neratinib kills B-RAF V600E melanoma via ROS-dependent autophagosome formation and death receptor signaling Pigment cell & melanoma research 2021-09-04 [PMID: 34482636]

Dent P, Booth L, Roberts Jl Et Al. Inhibition of heat shock proteins increases autophagosome formation, and reduces the expression of APP, Tau, SOD1 G93A and TDP-43 Aging 2021-07-12 [PMID: 34252884]

Dent P, Booth L, Poklepovic A et al. Osimertinib-resistant NSCLC cells activate ERBB2 and YAP/TAZ and are killed by neratinib Biochemical pharmacology 2021-05-30 [PMID: 34077739]

Booth L, West C, Von Hoff D et al. GZ17-6.02 Interacts With [MEK1/2 and B-RAF Inhibitors] to Kill Melanoma Cells Frontiers in oncology 2021-04-08 [PMID: 33898322] (Human)

Zachari M, Longo M, Ganley IG Aberrant autophagosome formation occurs upon small molecule inhibition of ULK1 kinase activity Life Sci Alliance 2020-12-01 [PMID: 33109685] (WB, Mouse)

Simpson LM, Macartney TJ, Nardin A et al. Inducible Degradation of Target Proteins through a Tractable Affinity-Directed Protein Missile System Cell Chem Biol 2020-07-03 [PMID: 32668203]

Booth L, Poklepovic A, Dent P Neratinib decreases pro-survival responses of [sorafenib + vorinostat] in pancreatic cancer Biochem. Pharmacol. 2020-06-03 [PMID: 32504550] (Mouse)

Zachari M, Rainard JM, Pandarakalam GC et al. The identification and characterisation of autophagy inhibitors from the published kinase inhibitor sets Biochem. J. 2020-02-28 [PMID: 32011652]

Dent P The multi-kinase inhibitor lenvatinib interacts with the HDAC inhibitor entinostat to kill liver cancer cells Cell. Signal. 2020-02-19 [PMID: 32087304]

Dent P, Booth L, Roberts JL et al. Fingolimod Augments Monomethylfumarate Killing of GBM Cells Front Oncol 2020-01-28 [PMID: 32047722] (Human)

Booth L, Roberts JL, West C et al. GZ17-6.02 initiates DNA damage causing autophagosome-dependent HDAC degradation resulting in enhanced anti-PD1 checkpoint inhibitory antibody efficacy J. Cell. Physiol. 2020-01-17 [PMID: 31951027]

Dent P, Booth L, Roberts JL et al. (Curcumin+sildenafil) enhances the efficacy of 5FU and anti-PD1 therapies in vivo J. Cell. Physiol. 2020-01-27 [PMID: 31985048] (Human)

More publications at http://www.novusbio.com/NBP2-19127

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Products Related to NBP2-19127

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00009776-P01-10ug	Recombinant Human ATG13 GST (N-Term) Protein

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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