# Product Datasheet

## HA Tag Antibody - BSA Free
## NB600-362

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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# NB600-362

HA Tag Antibody - BSA Free

## Product Information

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|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | 1.0 mg/ml |
| **Storage** | Store at 4C. Do not freeze. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.09% Sodium Azide |
| **Isotype** | IgG |
| **Purity** | Immunogen affinity purified |
| **Buffer** | PBS |

## Product Description

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| **Host** | Goat |
| **Species** | Epitope Tag |
| **Immunogen** | This HA Tag Antibody was developed by immunizing goats with HA cleavage site (YPYDVPDYA) conjugated to KLH. |

## Product Application Details

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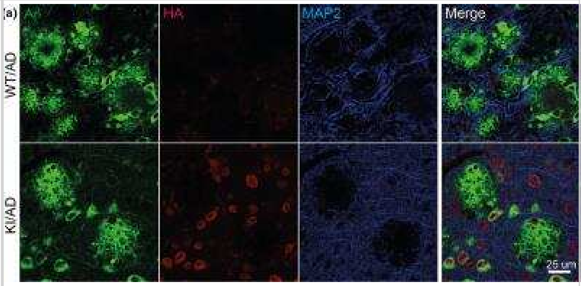
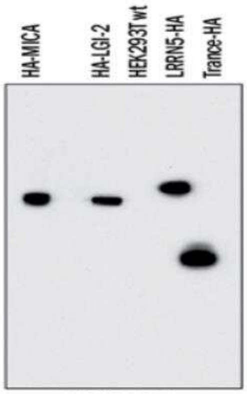
| **Applications** | Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation |
| **Recommended Dilutions** | Western Blot 1:10000 - 1:25000, ELISA 1:1000 - 1:3000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100 - 1:400, Immunoprecipitation 2 - 10 ug / mg lysate |
| **Application Notes** | ICC/IF reactivity reported in scientific literature (PMID: 23050017). |

## Images

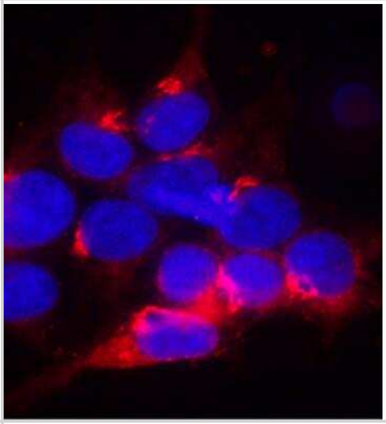
Immunohistochemistry: HA Tag Antibody [NB600-362] - SUMO1 conjugates are not localized to amyloid plaques. (a) Sagittal brain sections of 24-week-old KI/AD and WT/AD animals were stained using anti-HA antibodies (red), 6E10 antibodies (green) that label amyloid beta 1-42 among other amyloid beta variants (epitope lies within amino acids 3-8 of amyloid beta) and anti-MAP2 antibodies (blue). Sections of the hippocampal subiculum are shown. Images are representatives of three independent experiments. Scale bar, 25 um. Image collected and cropped by CiteAb from the following publication (https://doi.wiley.com/10.1111/acel.12760) licensed under a CC-BY license.



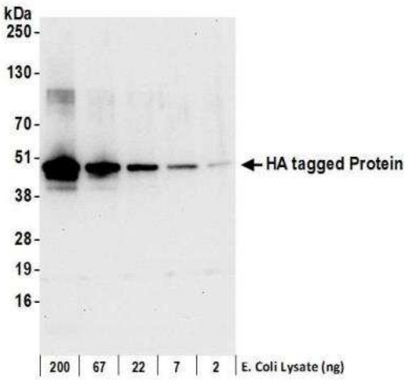
Western Blot: HA Tag Antibody [NB600-362] - Lysates of HEK293T human embryonic kidney cell line transfected with N-terminal HA-tagged MICA, N-terminal HA-tagged LGI-2, mock transfected, C-terminal HA-tagged LRRN5, and C-terminal HA-tagged Trance. PVDF membrane was probed with 1:500 dilution of 1:2500 dilution of goat anti-HA Tag polyclonal (NB600-362, Novus Biologicals), 1:5000 dilution of rabbit anti-HA Tag polyclonal (NB600-363, Novus Biologicals), followed by 1:2000 dilution of the appropriate HRP-conjugated secondary antibody, donkey anti-mouse IgG (HAF018).



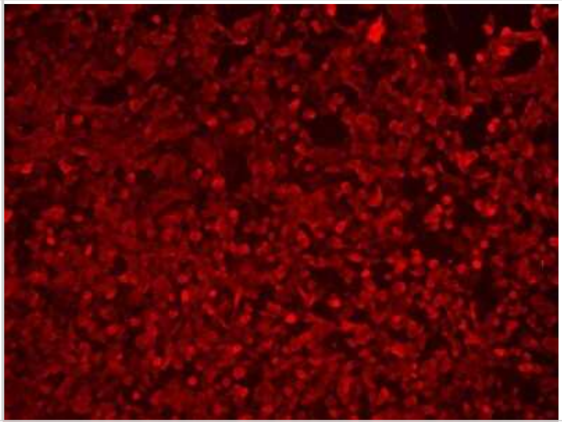
Immunocytochemistry/Immunofluorescence: HA Tag Antibody [NB600-362] - HA-tagged proteins were detected in immersion fixed HEK293 human embryonic kidney cell line transfected with HA-tagged MGAT2 using 1 ug/mL goat anti-HA Tag polyclonal (NB600-362, Novus Biologicals), 1 ug/mL rabbit anti-HA Tag polyclonal (NB600-363, Novus Biologicals). Cells were stained using the appropriate secondary antibody, donkey anti-mouse IgG-NL557 (NL007) and counterstained with DAPI (blue).



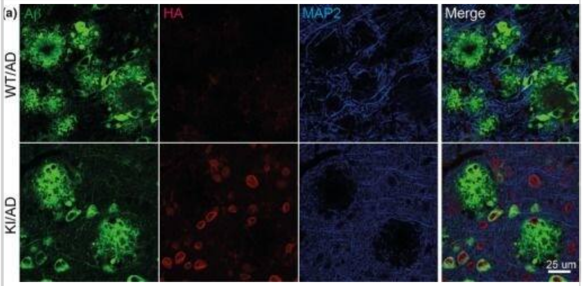
Western Blot: HA Tag Antibody - BSA Free [NB600-362] - 200, 67, 22, 7, or 2 ng of E. coli whole cell lysate expressing a multi-tag fusion protein. Antibodies: Affinity purified, goat anti-HA antibody used for WB at 0.04 ug/ml (1:25,000). Detection: Chemiluminescence with an exposure time of 10 seconds.



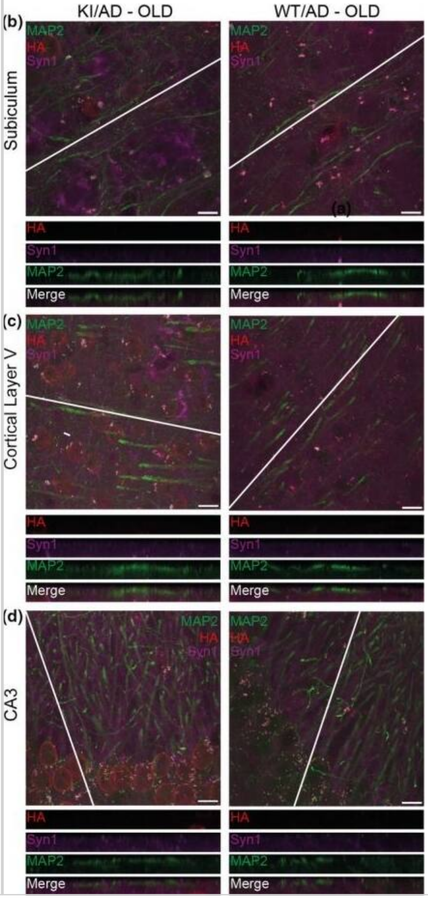
Immunocytochemistry/Immunofluorescence: HA Tag Antibody [NB600-362] - HA tagged RFX6 overexpression in HEK293 stained with HA Tag antibody at a dilution of 1:250. ICC/IF image submitted by a verified customer review.



SUMO1 conjugates are not localized to amyloid plaques. (a) Sagittal brain sections of 24□week□old KI/AD & WT/AD animals were stained using anti□HA antibodies (red), 6E10 antibodies (green) that label amyloid beta 1–42 among other amyloid beta variants (epitope lies within amino acids 3–8 of amyloid beta) & anti□MAP2 antibodies (blue). Sections of the hippocampal subiculum are shown. Images are representatives of three independent experiments. Scale bar, 25 µm. (b) Anti□HA signal intensity in amyloid plaques & in cell nuclei was quantified using ImageJ (N = 3, ***significance between WT/AD & KI/AD, p = .0007 in Student's t test) Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29633471), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



SUMO1 conjugates remain nuclear during increased amyloid burden. (a) Western blot analysis of subcellular fractions of 36□week□old KI/WT & KI/AD mouse brain using anti□HA antibody (upper two panels) & antibodies to GluN1 (a marker of the postsynaptic compartment) & Synaptophysin (a marker of the presynaptic compartment) to validate the fractionation procedure (lower two panels). H, homogenate; P1, nuclear pellet; S1, supernatant after P1 sedimentation; P2, crude synaptosomal pellet; S2, supernatant after P2 sedimentation; LP1, lysed synaptosomal membranes; LS1, supernatant after LP1 sedimentation; LP2, pellet after LS1 sedimentation, SPM, synaptic plasma membranes. Bracket indicates the anti□HA signal representing SUMOylation, arrow indicates RanGAP1, stars indicate nonspecific signal detected by the anti□HA antibody. (b) Brain sagittal sections of aged (36 weeks old) KI/AD (left panels) & WT/AD (right panels) mice were immunostained using antibodies directed against HA (red, labels HA□HA conjugates), MAP2 (green, labels neuronal somata & dendrites), & Synapsin1 (Syn1, magenta, labels synapses). The images show triple□labeled neurons of hippocampal subiculum (b), cortical layer 5 (c), & proximal apical dendrite from hippocampal CA3 (d). The white line shows the orientation of the line□scan used to generate the image stack shown in the bottom side view. Scale bar: 10 µm. Note that the anti□HA immunosignal is mainly located in neuronal nuclei, only background staining is observed in WT/AD mice. Little anti□HA signal is observed along MAP2□positive structures & does not colocalize with Synapsin1 Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/29633471), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



| Publications |
|---|
| Zaug AJ, Lim CJ, Olson CL et al. CST does not evict elongating telomerase but prevents initiation by ssDNA binding Nucleic Acids Research 2021-11-18 [PMID: 34718732] (Western Blot) |
| Natalia Malek, Aleksandra Michrowska, Ewa Mazurkiewicz, Ewa Mrówczyńska, Paweł Mackiewicz, Antonina J. Mazur The origin of the expressed retrotransposed gene ACTBL2 and its influence on human melanoma cells’ motility and focal adhesion formation Scientific Reports 2021-02-08 [PMID: 33558623] |
| Timothy M O'Shea, Yan Ao, Shinong Wang, Yilong Ren, Amy L Cheng, Riki Kawaguchi, Zechuan Shi, Vivek Swarup, Michael V Sofroniew Derivation and transcriptional reprogramming of border-forming wound repair astrocytes after spinal cord injury or stroke in mice. Nature neuroscience 2024-06-21 [PMID: 38907165] |
| Carlene L Zindl, C Garrett Wilson, Awalpreet S Chadha, Lennard W Duck, Baiyi Cai, Stacey N Harbour, Yoshiko Nagaoka-Kamata, Robin D Hatton, Min Gao, David A Figge, Casey T Weaver Distal colonocytes targeted by C. rodentium recruit T-cell help for barrier defence. Nature 2024-04-10 [PMID: 38600382] |
| Broadbent D, McEwan C, Tsang T et al. The formation of ubiquitin rich condensates triggers recruitment of the ATG9A lipid transfer complex to initiate basal autophagy bioRxiv 2023-11-30 |
| Lee B, Kim YH, Lee W et al. USP13 deubiquitinates p62/SQSTM1 to induce autophagy and Nrf2 release for activating antioxidant response genes Free radical biology & medicine 2023-11-01 [PMID: 37776917] (WB, BA) |
| Adewumi H, Berniac G, McCarthy E, OShea T Ischemic and hemorrhagic stroke lesion environments differentially alter the glia repair potential of neural progenitor cell and immature astrocyte grafts bioRxiv 2023-08-17 (ICC/IF) |
| Zeng J, Xu H, Fan PZ et al. Kaempferol blocks neutrophil extracellular traps formation and reduces tumour metastasis by inhibiting ROS-PAD4 pathway Journal of Cellular and Molecular Medicine 2020-07-01 [PMID: 32427405] (Block/Neutralize) |
| Yan Y, Gauthier MA, Malik A et al. The NOTCH-RIPK4-IRF6-ELOVL4 Axis Suppresses Squamous Cell Carcinoma Cancers (Basel) 2023-01-25 [PMID: 36765696] (In vivo assay) |
| O'Shea TM, Ao Y, Wang S et al. Lesion environments direct transplanted neural progenitors towards a wound repair astroglial phenotype in mice Nature Communications 2022-09-28 [PMID: 36171203] (Immunocytochemistry/ Immunofluorescence) |
| Adilardi RS, Dernburg AF. Robust, versatile DNA FISH probes for chromosome-specific repeats in Caenorhabditis elegans and Pristionchus pacificus G3 Genes\|Genomes\|Genetics 2022-07-06 [PMID: 35567480] (Block/Neutralize, Immunocytochemistry/ Immunofluorescence) |
| Wei G, Iqbal N, Courouble VV et al. Prion-like low complexity regions enable avid virus-host interactions during HIV-1 infection Nature Communications 2022-10-06 [PMID: 36202818] |
| More publications at [http://www.novusbio.com/NB600-362](http://www.novusbio.com/NB600-362) |

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## Products Related to NB600-362

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|---|---|
| HAF017 | Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| HAF109 | Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)] |
| NB410-28088-1mg | Goat IgG Isotype Control |
| NB600-362B | HA Tag Antibody [Biotin] |

**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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