Product Datasheet

DEC2/SHARP1 Antibody - BSA Free
NBP1-19613

Unit Size: 0.1 mg

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

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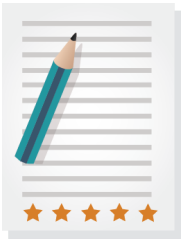
Updated 4/13/2025 v.20.1



NBP1-19613

DEC2/SHARP1 Antibody - BSA Free

Product Information

Unit Size	0.1 mg
Concentration	1.0 mg/ml
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	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	50 kDa

Product Description

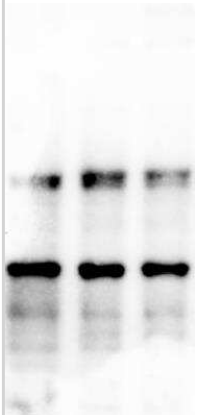
Host	Rabbit
Gene ID	79365
Gene Symbol	BHLHE41
Species	Human, Mouse, Rat
Reactivity Notes	Immunogen has 100% homology to bovine and canine.
Immunogen	A synthetic peptide made to an internal portion of the human DEC2/SHARP1 inbetween residues 1-75 [UniProt Q9C0J9].

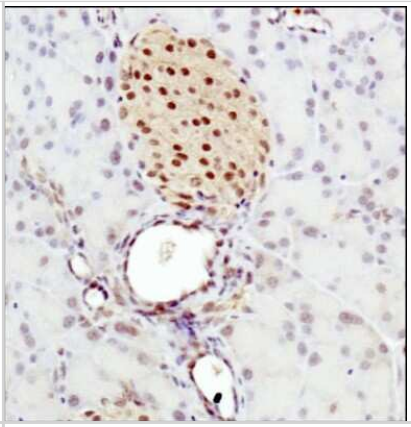
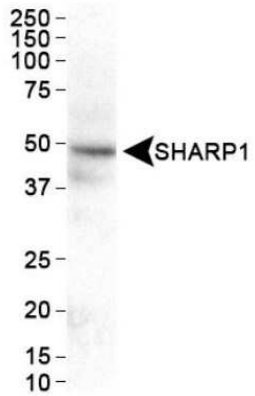
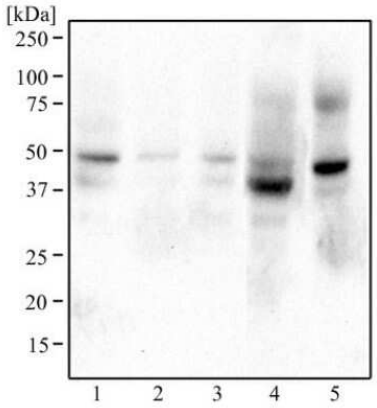
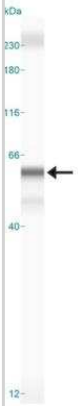
Product Application Details

Applications	Western Blot, Simple Western, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Simple Western 1:50, Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100
Application Notes	In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in HeLa lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:50. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: DEC2/SHARP1 Antibody [NBP1-19613] - Huh7 cell lysates loaded from left to right at concentrations of 20, 30, and 40 ug of total protein. Image from verified customer review.



Immunohistochemistry-Paraffin: DEC2/SHARP1 Antibody [NBP1-19613] - Staining of SHARP1 in mouse pancreas.	
Western Blot: DEC2/SHARP1 Antibody [NBP1-19613] - Analysis of SHARP1 in HeLa whole cell extract.	
Western Blot: DEC2/SHARP1 Antibody [NBP1-19613] - Analysis of HeLa (1), Raw 264.7 (2), A431 (3), MCF7 (4), and PC12 (5) using SHARP1 antibody at 2 ug/mL.	
Simple Western: DEC2/SHARP1 Antibody [NBP1-19613] - Image shows a specific band for SHARP1 in 0.5 mg/mL of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	

Publications

Enriqué Steinberg JH, Rossi FA, Magliozzi R et al. SCF?TrCP-mediated degradation of SHARP1 in triple-negative breast cancer Cell death & disease 2023-11-08 [PMID: 37938564]

Shearn, CT;Anderson, AL;Devereaux, MW;El Kasmi, KC;Orlicky, DJ;Sokol, RJ; Expression of circadian regulatory genes is dysregulated by increased cytokine production in mice subjected to concomitant intestinal injury and parenteral nutrition PloS one 2023-08-30 [PMID: 37647292] (Western Blot)

Liao Y, Lu W, Che Q et al. SHARP1 Suppresses Angiogenesis of Endometrial Cancer by Decreasing Hypoxia-Inducible Factor-1a Level PLoS ONE. 2014-06-12 [PMID: 24918449] (IHC-P, WB, Human)

Details:
SHARP1 antibody used for IHC-P (1:100 to 10 µg/ml dilution, incubated at 4C ON) on endometrial cancer or normal endometrium from human subjects and nude mice tumor tissues (staining images in Figure 1A-F, Figure 5F). WB was performed (1:500 to 2 µg/ml dilution, incubated 4C ON) on Human EC cell lines (Ishikawa and RL95-2) - Ishikawa and RL95-2 cells (Figure 2A), vector/SHARP1-overexpressing Ishikawa cells (Figure 2B, Figure 5A, Figure-S1B) and SHARP1 depleted RL95-2 cells under normoxic/hypoxic conditions (Figure 2C, Figure-S1D), Co-immunoprecipitation of endogenous HIF-1 alpha -SHARP1 in Ishikawa cells (Figure 2E) and Ishikawa cells exposed to normoxia/hypoxia (Figure 2F) . Figure- S2 shows the WB of SHARP1 in siRNA-HIF1 alpha depleted Ishikawa cells.

Inaguma S, Riku M, Hashimoto M et al. GLI1 interferes with the DNA mismatch repair system in pancreatic cancer through BHLHE41-mediated suppression of MLH1. Cancer Res. 2013-10-28 [PMID: 24165159] (WB, Human)

Procedures

Western blot Protocol for SHARP1 antibody (NBP1-19613)
DEC2/SHARP1 Antibody:
Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer three times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunohistochemistry Protocol for SHARP1 antibody (NBP1-19613)
DEC2/SHARP1 Antibody:
Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:
Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:
1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

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Products Related to NBP1-19613

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-19613G	DEC2/SHARP1 Antibody [DyLight 488]

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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