

Product Datasheet

HES-1 Antibody - BSA Free

NBP1-30912

Unit Size: 100 ul

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

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NBP1-30912

HES-1 Antibody - BSA Free

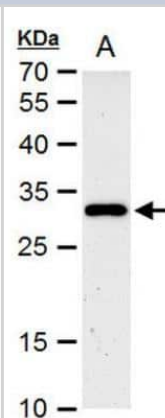
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	30 kDa

Product Description	
Description	Novus Biologicals Rabbit HES-1 Antibody - BSA Free (NBP1-30912) is a polyclonal antibody validated for use in WB, ICC/IF and IP. Anti-HES-1 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	3280
Gene Symbol	HES1
Species	Human, Mouse, Rat
Immunogen	Carrier-protein conjugated synthetic peptide encompassing a sequence within the N-terminus region of human HES-1. The exact sequence is proprietary.

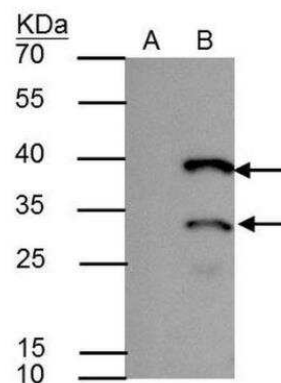
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation
Recommended Dilutions	Western Blot 1:500-1:3000, Immunocytochemistry/ Immunofluorescence 1:100-1:2000, Immunoprecipitation 1:100-1:500

Images

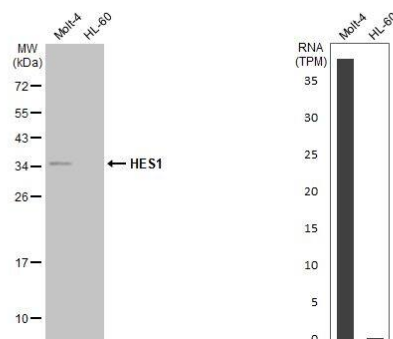
Western Blot: HES-1 Antibody [NBP1-30912] - PC-12 whole cell extract. 12 % SDS-PAGE HES1 antibody [N1], N-term dilution: 1:1000



Immunoprecipitation: HES-1 Antibody [NBP1-30912] - A431 whole cell lysate/extract A : Control with 2.5 ug of pre-immune rabbit IgG B : Immunoprecipitation of HES1 by 2.5 ug of HES1 antibody 12% SDS-PAGE The immunoprecipitated HES1 protein was detected by HES1 antibody diluted at 1 : 1000. EasyBlot anti-rabbit IgG (HRP) was used as a secondary reagent.



Western Blot: HES-1 Antibody [NBP1-30912] - Various whole cell extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with HES1 antibody [N1], N-term diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



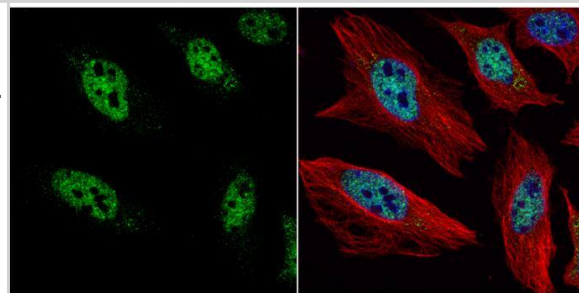
HES-1 antibody [N1], N-term detects HES-1 protein at nucleus by immunofluorescent analysis.

Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.

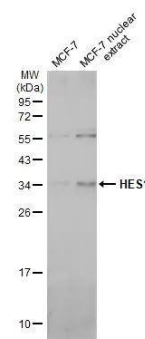
Green: HES-1 protein stained by HES-1 antibody [N1], N-term (NBP1-30912) diluted at 1:2000.

Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] diluted at 1:1000.

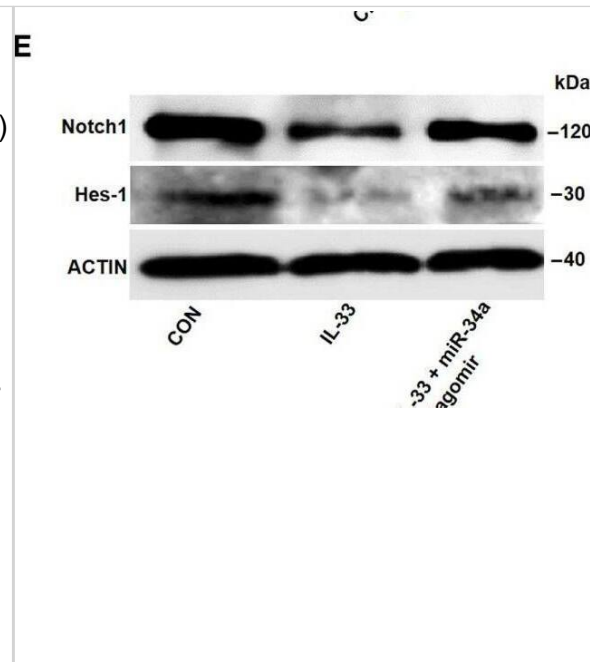
Blue: Hoechst 33342 staining.



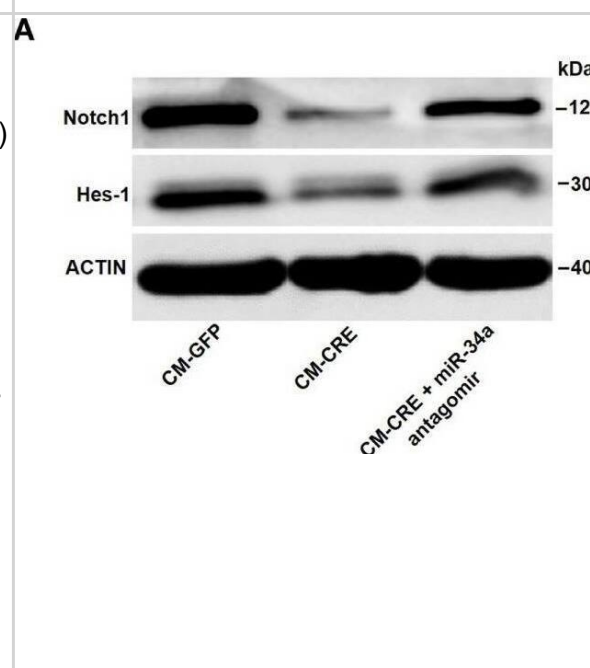
MCF-7 whole cell and nuclear extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with HES-1 antibody [N1], N-term (NBP1-30912) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Interleukin-33 (IL-33) decreases bone marrow-derived monocytes (BMMs) osteoclastogenesis by inhibiting Notch1 activity. (A) Western blot analysis of Notch1 and Hes-1 expression in osteoclast progenitors incubated with CM-CRE in the presence of miR-34a-5p antagomir. (B–D) Quantification of Notch1, Jag1, and Hes-1 expression in osteoclast progenitors incubated with CM-CRE in the presence of miR-34a-5p antagomir. (E) Western blot analysis of Notch1 and Hes-1 expression in osteoclast progenitors induced by IL-33 in the presence of miR-34a-5p antagomir. (F–H) Quantification of Notch1, Jag1, and Hes-1 expression in osteoclast progenitors treated with IL-33 in the presence of miR-34a-5p antagomir. (I–K) BMMs osteoclastic formation and tartrate-resistant acid phosphatase (TRAP) activity assay after treatment with 20 ng/ml IL-33 in the presence of Jag-1. Red arrows indicated multinucleated osteoclasts. Scale bars represent 100 μ m. (L–O) Quantification of Trap, Cathepsin K, Nfatc1, and C-fos expression in osteoclast progenitors treated with 20 ng/ml IL-33 in the presence of Jag-1. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$. P values were analyzed by one-way ANOVA. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29085370>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Interleukin-33 (IL-33) decreases bone marrow-derived monocytes (BMMs) osteoclastogenesis by inhibiting Notch1 activity. (A) Western blot analysis of Notch1 and Hes-1 expression in osteoclast progenitors incubated with CM-CRE in the presence of miR-34a-5p antagomir. (B–D) Quantification of Notch1, Jag1, and Hes-1 expression in osteoclast progenitors incubated with CM-CRE in the presence of miR-34a-5p antagomir. (E) Western blot analysis of Notch1 and Hes-1 expression in osteoclast progenitors induced by IL-33 in the presence of miR-34a-5p antagomir. (F–H) Quantification of Notch1, Jag1, and Hes-1 expression in osteoclast progenitors treated with IL-33 in the presence of miR-34a-5p antagomir. (I–K) BMMs osteoclastic formation and tartrate-resistant acid phosphatase (TRAP) activity assay after treatment with 20 ng/ml IL-33 in the presence of Jag-1. Red arrows indicated multinucleated osteoclasts. Scale bars represent 100 μ m. (L–O) Quantification of Trap, Cathepsin K, Nfatc1, and C-fos expression in osteoclast progenitors treated with 20 ng/ml IL-33 in the presence of Jag-1. * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$. P values were analyzed by one-way ANOVA. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29085370>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kang H, Yang K, Xiao L et al. Osteoblast Hypoxia-Inducible Factor-1a Pathway Activation Restrains Osteoclastogenesis via the Interleukin-33-MicroRNA-34a-Notch1 Pathway. *Front Immunol.* 2017-10-31 [PMID: 29085370] (WB, Mouse)



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Products Related to NBP1-30912

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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