

Product Datasheet

WEE2 Antibody - BSA Free

NBP1-83676

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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Publications: 2

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Updated 12/2/2025 v.20.1

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NBP1-83676

WEE2 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

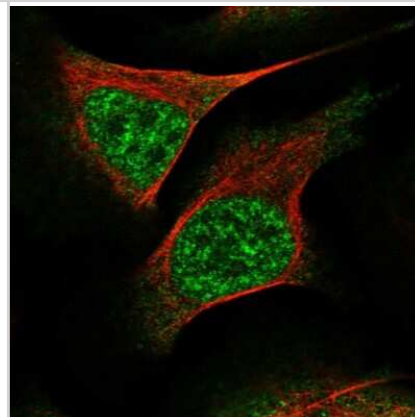
Product Description	
Description	Novus Biologicals Rabbit WEE2 Antibody - BSA Free (NBP1-83676) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-WEE2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	494551
Gene Symbol	WEE2
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (83%), Rat (82%)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: TKSGNHFEFPKLDILLQISLGLNYIHNSMVHLDIKPSNIFICHKMQSESSGVIE EVENEADWFLSANVMYKIGDLGHATSINKPKVVEEGD

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:500 - 1:1000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:500 - 1:1000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

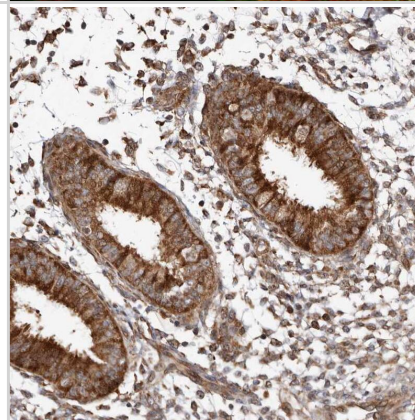


Images

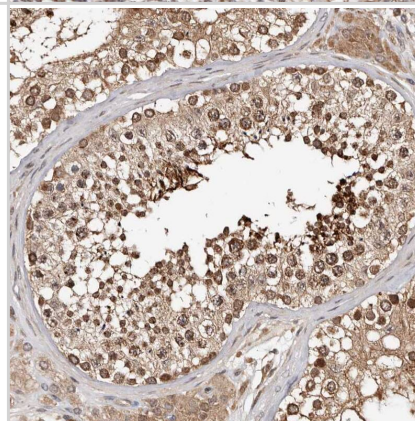
Immunocytochemistry/Immunofluorescence: WEE2 Antibody [NBP1-83676] - Staining of human cell line U-2 OS shows localization to nucleoplasm & cytosol. Antibody staining is shown in green.



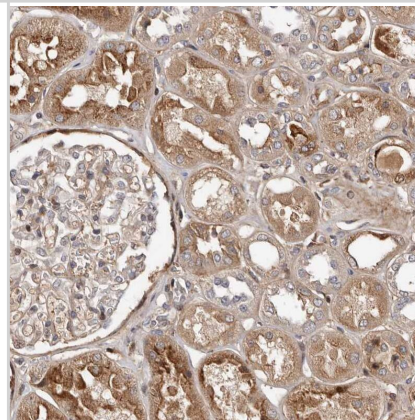
Staining of human endometrium shows strong cytoplasmic positivity in glandular cells.



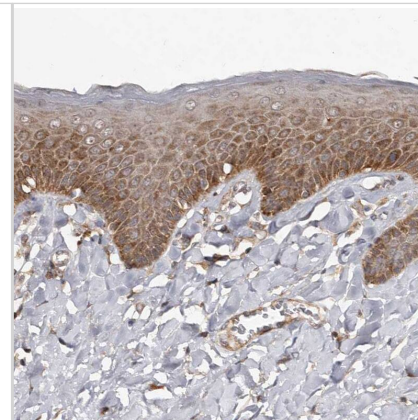
Staining of human testis shows strong cytoplasmic positivity in cells in seminiferous ducts.



Staining of human kidney shows moderate cytoplasmic positivity in cells in tubules.



Staining of human skin shows moderate cytoplasmic positivity in squamous epithelial cells.

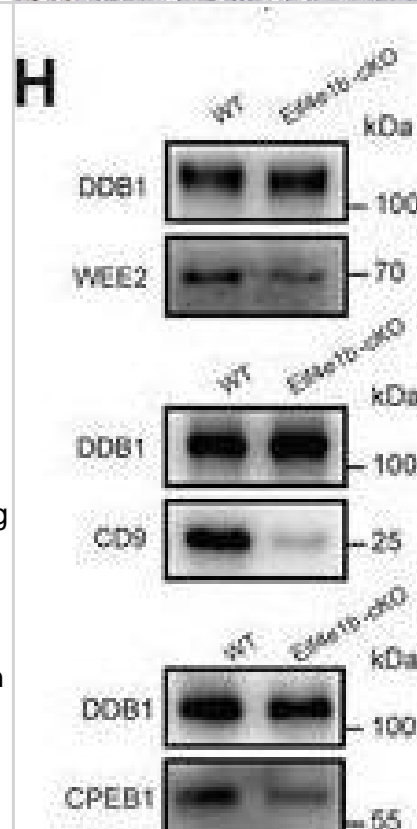


Proteomics analysis of eIF4E1B-mediated selective translation. A,B) The Thermo Fisher Orbitrap Eclipse Tribrid mass detected a total of 2179 protein-related genes that were applied for exploration.

Significantly upregulated (red) and downregulated (blue) proteins within Eif4e1b-cKO GV and MII oocytes ($p < 0.05$). C) Fold change and significance of Ube2a, Gpi1, and Zar1 protein levels disclosed by mass spectrometry within Eif4e1b-cKO GV and MII oocytes. D,E) Heatmaps that present differences from WT to Eif4e1b-cKO oocytes within the cohort expression of downregulated proteins of a variety of processes.

F,G) Eif4e1b-bound genes presented stronger downregulation at the protein levels compared to the unbound genes within GV and MII Eif4e1b-cKO oocytes. The p -values in F and G were determined by the two-tailed Wilcoxon test. MS data from every group within the findings includes three independent experiments. (H) Western blotting results present endogenous protein levels of WEE2, and CD9 within MII oocytes and CPEB1 within GV oocytes. DDB1 was blotted as the loading control. The experiment went through three independent repetitions and reached similar findings. I) The UCSC browser views of LACE-seq reads for Wee2, Cd9, and Cpeb1 in mouse GV oocytes. Red track, eIF4E1B LACE-seq; eIF4E1B-cKO LACE-seq and IgG LACE-seq track are shown below; Blue track, the peaks information of RNA-seq in WT and Eif4e1b-cKO GV oocytes. Image collected and cropped by CiteAb from the following open publication

(<https://pubmed.ncbi.nlm.nih.gov/36755190>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Guo J, Zhao H, Zhang J et al. Selective Translation of Maternal mRNA by eIF4E1B Controls Oocyte to Embryo Transition *Advanced science* (Weinheim, Baden-Wurtemberg, Germany) 2023-02-08 [PMID: 36755190] (WB, Mouse)

Dai J, Zheng W, Dai C et al. New biallelic mutations in WEE2: expanding the spectrum of mutations that cause fertilization failure or poor fertilization *Fertil. Steril.* 2019-03-01 [PMID: 30827523] (ICC/IF, Human)



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Products Related to NBP1-83676

NBP1-83676PEP	WEE2 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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