

# Product Datasheet

## OVOL2 Antibody NBP2-42907

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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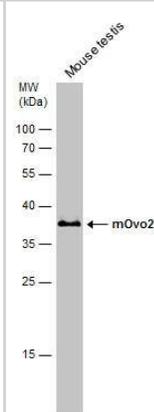
**NBP2-42907**

## OVOL2 Antibody

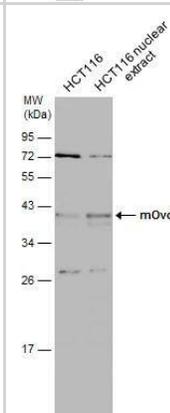
Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.01% Thimerosal
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS, 1% BSA, 20% Glycerol
<b>Target Molecular Weight</b>	31 kDa
Product Description	
<b>Description</b>	Novus Biologicals Rabbit OVOL2 Antibody (NBP2-42907) is a polyclonal antibody validated for use in IHC, WB, IP and ChIP. Anti-OVOL2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	58495
<b>Gene Symbol</b>	OVOL2
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Bovine (89%).
<b>Immunogen</b>	Recombinant protein encompassing a sequence within the center region of mouse OVOL2. The exact sequence is proprietary.
Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Frozen, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	Western Blot 1:500-1:3000, Immunoprecipitation Assay dependent, Immunohistochemistry-Frozen Assay dependent, Chromatin Immunoprecipitation (ChIP) Assay dependent

## Images

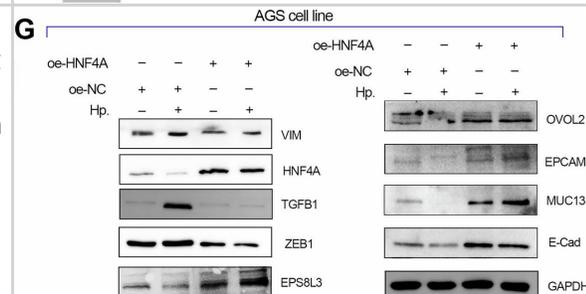
Mouse tissue extract (50 ug) was separated by 12% SDS-PAGE, and the membrane was blotted with mOvo2 antibody (NBP2-42907) diluted at 1:500.



HCT-116 whole cell and nuclear extracts (30 ug) were separated by 12% SDS-PAGE, and the membrane was blotted with mOvo2 antibody (NBP2-42907) diluted at 1:1000.



Hp. induces HNF4A silencing to activate EMT signaling in GC. A The gene expression correlation analysis showed that HNF4A-induced target genes were co-expressed with epithelial genes, but were negatively co-expressed with TGFB1 gene in TCGA\_STAD. B, C The gene expression analysis showed that the epithelial genes as well as HNF4A-induced target genes were highly expressed in GC patients with Hp. positive infection. D, E Hp. infection experiments with different MOI were conducted in the AGS (highly expressed HNF4A) and MKN74 (hardly expressed HNF4A) cell lines AGS. The western blotting assays were performed to examine the effect of Hp. infection on EMT signaling in GC cell lines. F The AGS cell line with or without HNF4A overexpression was successfully constructed using lentivirus transfection. The plasmid for HNF4A overexpression was shown. In briefly, the AGS cell line without HNF4A overexpression (oe-NC) only contains endogenous HNF4A with wildtype promoter. The AGS cell line with HNF4A overexpression (oe-HNF4A) contains endogenous HNF4A with wildtype HNF4A promoter and exogenous HNF4A with Ubiquitin gene promoter. G The EMT signaling activated by Hp. infection can be restored by exogenous HNF4A overexpression. Image collected and cropped by CiteAb from the following open publication (<https://www.nature.com/articles/s41419-025-08029-6>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Li D, Zhou Z, Li X et al. Hypermethylation-mediated HNF4A silencing by Helicobacter pylori infection drives gastric cancer by disrupting epithelial cell polarity and activating EMT signaling Cell death & disease 2025-10-06 [PMID: 41053012]

Lu R, Hong J, Fu T et Al. Loss of OVOL2 in Triple-Negative Breast Cancer Promotes Fatty Acid Oxidation Fueling Stemness Characteristics Adv Sci (Weinh) 2024-04-16 [PMID: 38627980]

Xia L, Gao J, Ma K et al. OVOL2 attenuates the expression of MAP3K8 to suppress epithelial mesenchymal transition in colorectal cancer Pathology - Research and Practice 2021-05-01 [PMID: 34098198]





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### **Products Related to NBP2-42907**

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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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### **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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