

# Product Datasheet

## GCLC Antibody (OTI1A3) NBP2-45830

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-45830**

GCLC Antibody (OTI1A3)

**Product Information**

<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	OTI1A3
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH 7.3), 1.0% BSA and 50% Glycerol
<b>Target Molecular Weight</b>	72.6 kDa

**Product Description**

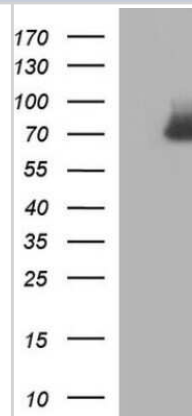
<b>Host</b>	Mouse
<b>Gene ID</b>	2729
<b>Gene Symbol</b>	GCLC
<b>Species</b>	Human, Mouse, Rat, Monkey
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 29799837). Please note that this antibody is reactive to Mouse and derived from the same host, Mouse. Mouse-On-Mouse blocking reagent may be needed for IHC and ICC experiments to reduce high background signal. You can find these reagents under catalog numbers PK-2200-NB and MP-2400-NB. Please contact Technical Support if you have any questions.
<b>Immunogen</b>	Full length human recombinant protein of human GCLC(NP_001489) produced in HEK293T cell.

**Product Application Details**

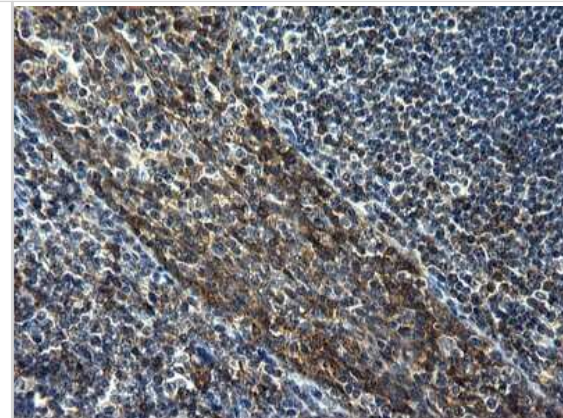
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:200 - 1000, Immunohistochemistry 1:150, Immunohistochemistry-Paraffin 1:150

**Images**

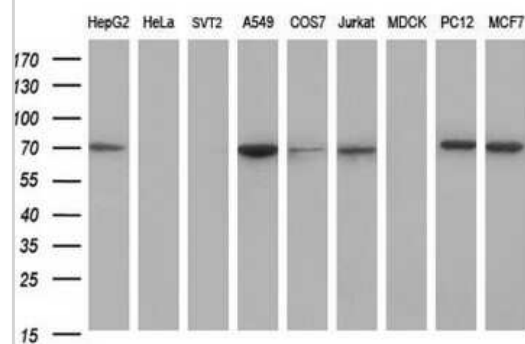
Western Blot: GCLC Antibody (1A3) [NBP2-45830] - Analysis of HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GCLC.



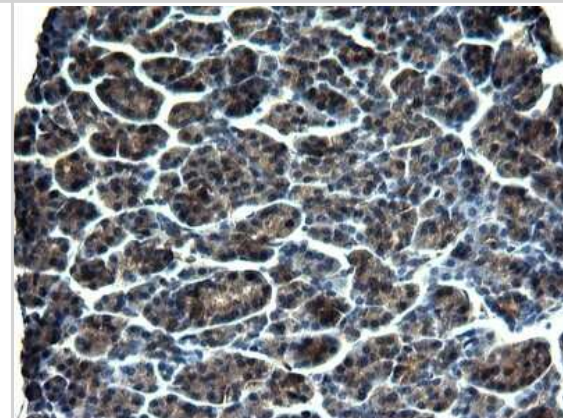
Immunohistochemistry: GCLC Antibody (1A3) [NBP2-45830] - Analysis of Human lymph node tissue. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120C for 3min)



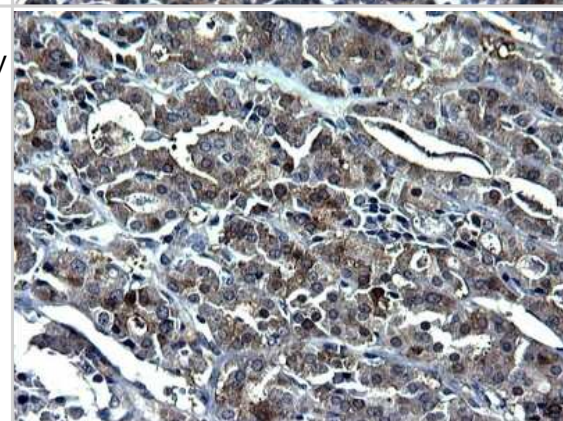
Western Blot: GCLC Antibody (1A3) [NBP2-45830] - Analysis of extracts (35ug) from 9 different cell lines (HepG2: human; HeLa: human; SVT2: mouse; A549: human; COS7: monkey; Jurkat: human; MDCK: canine; PC12: rat; MCF7: human).



Immunohistochemistry: GCLC Antibody (1A3) [NBP2-45830] - Analysis of Human pancreas tissue. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120C for 3min)



Immunohistochemistry: GCLC Antibody (1A3) [NBP2-45830] - Analysis of Carcinoma of Human thyroid tissue. (Heat-induced epitope retrieval by 1 mM EDTA in 10mM Tris, pH8.5, 120C for 3min)



## Publications

BessiEres B, Cruz E, Alberini CM Metabolomic profiling reveals a differential role for hippocampal glutathione reductase in infantile memory formation eLife 2021-11-26 [PMID: 34825649] (WB, Rat)

Petersen Dennis R, Saba Laura M, Sayin Volkan I et al. Elevated Nrf-2 responses are insufficient to mitigate protein carbonylation in hepatospecific PTEN deletion mice. PloS One 2018-05-25 [PMID: 29799837] (IF/IHC, WB, Mouse)



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### **Products Related to NBP2-45830**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
H00002729-P01-10ug	Recombinant Human GCLC GST (N-Term) Protein

### **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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