

Product Datasheet

PSMA/FOLH1/NAALADase I Antibody (GCP-04) - BSA Free NBP1-45057

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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NBP1-45057

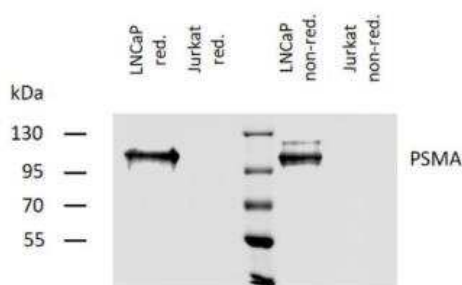
PSMA/FOLH1/NAALADase I Antibody (GCP-04) - BSA Free

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	GCP-04
Preservative	0.9% Sodium Azide
Isotype	IgG1
Purity	Protein A purified
Buffer	PBS (pH 7.4)
Target Molecular Weight	110 kDa
Product Description	
Host	Mouse
Gene ID	2346
Gene Symbol	FOLH1
Species	Human, Mouse, Rat, Porcine, Canine
Reactivity Notes	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. Canine reactivity reported from a verified customer review.
Specificity/Sensitivity	The antibody GCP-04 recognizes amino acids 100-104 of extracellular domain of denaturated glutamate carboxypeptidase II (PSMA, NAALADase, FOLH1), an approximately 95-110 kDa transmembrane glycoprotein.
Immunogen	Recombinant fragment of human GCPII (amino acids 44-750) produced in S2 cells (NM_001014986.1).
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1:200
Application Notes	PSMA/FOLH1/NAALADase I antibody validated for WB from a verified customer review. Western blotting: Recommended dilution: 1 ug/ml; positive control: LNCaP cell line. Sample preparation: Resuspend approx. 50 mil. cells in 1 ml cold lysis buffer (1% NP-40). Incubate 30 min on ice. Mix lysate with non-reducing/reducing Laemmli SDS-PAGE sample buffer. Both reducing and non-reducing conditions.

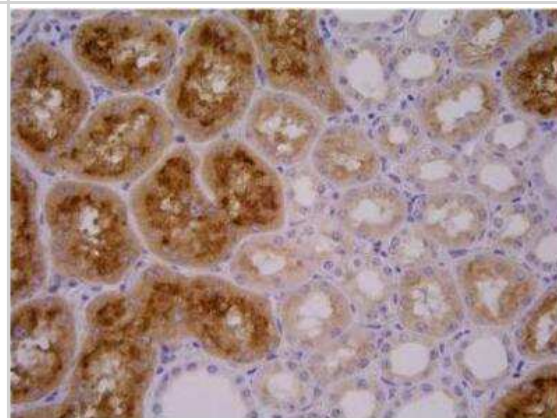


Images

Western Blot: PSMA/FOLH1/NAALADase I Antibody (GCP-04) [NBP1-45057] - Analysis of human PSMA using mouse monoclonal antibody GCP-04 on lysates of LNCaP cell line and Jurkat cell line (PSMA non-expressing cell line; negative control) under reducing and non-reducing conditions. Nitrocellulose membrane was probed with 2 ug/ml of mouse anti-PSMA monoclonal antibody followed by IRDye800-conjugated anti-mouse secondary antibody.



Immunohistochemistry-Paraffin: PSMA/FOLH1/NAALADase I Antibody (GCP-04) [NBP1-45057] - GCPII in porcine kidney by GCP-04 monoclonal antibody. Highly positive proximal glomeruli.



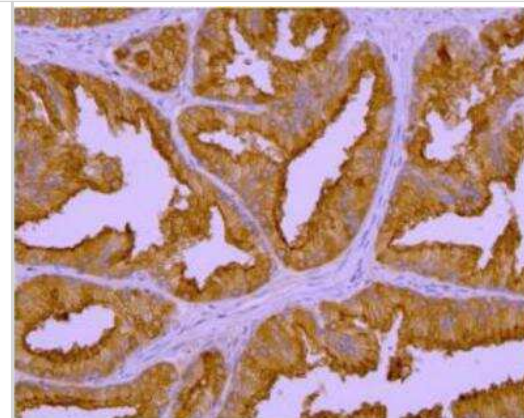
Western Blot: PSMA/FOLH1/NAALADase I Antibody (GCP-04) [NBP1-45057] - PSMA expression in human prostate cancer cell lines. Image from verified customer review.



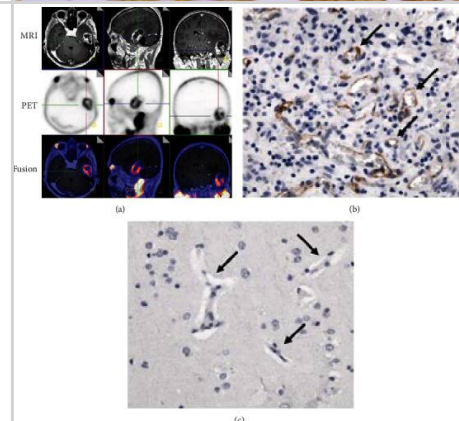
Immunohistochemistry: PSMA/FOLH1/NAALADase I Antibody (GCP-04) [NBP1-45057] - GCPII in human Medulla oblongata by GCP-04 monoclonal antibody. Mag. 40x; positive astrocytes in white matter.



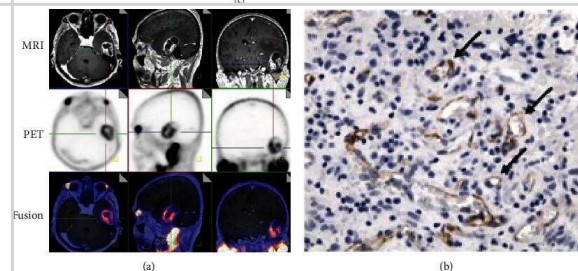
Immunohistochemistry-Paraffin: PSMA/FOLH1/NAALADase I Antibody (GCP-04) [NBP1-45057] - GCPII in human prostate by GCP-04 monoclonal antibody. Mag. 400x; positive epithelium of the prostate glands.



Immunohistochemistry: PSMA/FOLH1/NAALADase I Antibody (GCP-04) - BSA Free [NBP1-45057] - Ga-PSMA PET and PSMA/FOLH1/NAALADase I immunohistochemistry of representative GBM. A) MRI, 68Ga-PSMA PET, and fused images. B) PSMA/FOLH1/NAALADase I expression in GBM vascular endothelium. C) No PSMA/FOLH1/NAALADase I expression in normal brain. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/35517711/>) licensed under a CC-BY license.



68Ga-PSMA PET and PSMA immunohistochemistry of representative GBM. (a) MRI, 68Ga-PSMA PET, and fused images. (b) PSMA expression in GBM vascular endothelium. (c) No PSMA expression in normal brain. Reproduced with permission from Schwenck et al. [17].



Publications

Berry MR, Fadl-Alla BA, Samuelson J et al. Investigating PSMA differential expression in canine uroepithelial carcinomas to aid disease-based stratification and guide therapeutic selection BMC veterinary research 2022-12-20 [PMID: 36539731] (IHC, WB, ICC/IF, Canine, Human)

Stopa B, Crowley J, Juhász C et al. Prostate-Specific Membrane Antigen as Target for Neuroimaging of Central Nervous System Tumors Molecular Imaging 2022-04-15 [PMID: 35517711]

Oliveira D, Stegmayr C, Heinzel A et al. High uptake of ⁶⁸Ga-PSMA and ¹⁸F-DCFPyL in the peritumoral area of rat gliomas due to activated astrocytes EJNMMI Res 2020-05-25 [PMID: 32451793] (IF/IHC, Rat)

Halbert D, Domenyuk V, Spetzler D et al. Aptamers and uses thereof United States Patent Application US 9958448 B2 2018-01-01

Dowling M, Samuelson J, Fadl-Alla B et al. Overexpression of prostate specific membrane antigen by canine hemangiosarcoma cells provides opportunity for the molecular detection of disease burdens within hemorrhagic body cavity effusions. PLoS ONE 2019-01-02 [PMID: 30601866] (IHC-P, Human)

Rovenska M, Hlouchova K, Sacha P et al. Tissue expression and enzymologic characterization of human prostate specific membrane antigen and its rat and pig orthologs. Prostate. 2008-02-01 [PMID: 18076021]

Sacha P, Zamecnik J, Barinka C et al. Expression of glutamate carboxypeptidase II in human brain. Neuroscience. 2007-02-01 [PMID: 17150306]

Barinka C, Sacha P, Sklenar J et al. Identification of the N-glycosylation sites on glutamate carboxypeptidase II necessary for proteolytic activity. Protein Sci. 2004-06-01 [PMID: 15152093]

Barinka C, Mlcochova P, Sacha P et al. Amino acids at the N- and C-termini of human glutamate carboxypeptidase II are required for enzymatic activity and proper folding. Eur J Biochem. 2004-07-01 [PMID: 15206943]

Barinka C, Rinnova M, Sacha P et al. Substrate specificity, inhibition and enzymological analysis of recombinant human glutamate carboxypeptidase II. J Neurochem. 2002-02-01 [PMID: 11905994]





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Products Related to NBP1-45057

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)
NBP1-45057UV	PSMA/FOLH1/NAALADase I Antibody (GCP-04) [DyLight 350]

Limitations

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