

GDN Rabbit pAb

Catalog # AP98974

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	P07093
Other Accession	P07093
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44002
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GDN/SERPINE2
Epitope Specificity	301-398/398
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the serpin family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The serine protease inhibitors (serpins) compose a superfamily of proteins with a diverse set of functions, including the control of blood coagulation, complement activation, programmed cell death and development. Serpins are secreted glycoproteins that contain a stretch of peptide that mimics a true substrate for a corresponding serine protease. Protease nexin-1 (PN-1) is a serpin that inactivates several proteases, including thrombin, urokinase, plasminogen activators (PA) and plasmin. It is involved in tissue remodeling, cellular invasiveness, matrix degradation and tumor growth. PN-1 expression is abundant in the nervous system, where it inhibits thrombin, thereby playing a role in neural injury and repair processes. An imbalance between PN-1 and thrombin may be a contributing factor in the pathology of Alzheimer's disease.

Additional Information

Gene ID	5270
Other Names	GDN; GDNPF; PI-7; PI7; PN-1; PN1; PNI; B230326M24Rik; PAI-1; Spi4; CRG; Gdnpn1; Spin4; GDN_HUMAN; SERPINE2; Peptidase inhibitor 7 (PI-7); Protease nexin 1 (PN-1); Protease nexin I; Serpin E2; GDN_MOUSE; Serine protease-inhibitor 4; GDN_RAT; serpin family E member 2; serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2; serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2; glial-derived nexin 1
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
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Protein Information

Name	SERPINE2
Synonyms	PI7, PN1
Function	Serine protease inhibitor with activity toward thrombin, trypsin, and urokinase. Promotes neurite extension by inhibiting thrombin. Binds heparin.
Cellular Location	Secreted, extracellular space.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.