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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



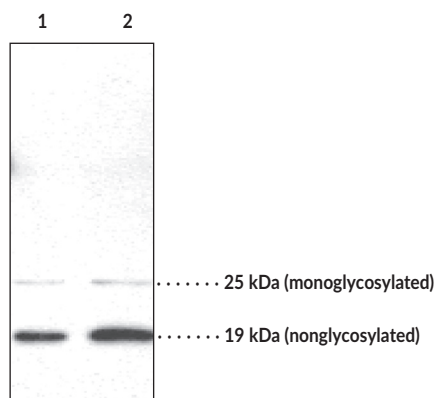
Doppel Polyclonal Antibody

Item No. 10005517

Overview and Properties

Contents:	This vial contains 500 µl of peptide affinity-purified polyclonal antibody.
Synonyms:	DPL, Prion-like Protein Doppel, Prion Protein 2, PRND, PrPLP
Immunogen:	Synthetic peptide from an internal region of human Doppel
Species Reactivity:	(+) Human, mouse, and rat; other species not tested
Uniprot No.:	Q9UKY0
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥3 years
Storage Buffer:	TBS, pH 7.4, with 50% glycerol, 0.1% BSA, and 0.02% sodium azide
Host:	Rabbit
Applications:	Immunohistochemistry (IHC) and Western blot (WB); the recommended starting dilution is 1:100 and 1:200, respectively. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image



Lane 1: Mouse spleen 100 k x g supernatant (27 µg)

Lane 2: Mouse spleen 100 k x g supernatant (54 µg)

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD

ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM

WWW.CAYMANCHEM.COM

PRODUCT INFORMATION



Description

Doppel is a homolog of the cellular prion protein. Like prion protein, doppel has two N-linked oligosaccharides, and is presented on the cell surface *via* a glycosylphosphatidylinositol anchor.¹ Unlike prion protein, it lacks the conformationally plastic and octapeptide repeat domains.² The primary physiological role of doppel protein remains to be determined, but there is some evidence suggesting that cell surface prion protein can antagonize the toxic effect of doppel expressed in the central nervous system.¹ In addition, the protein may play a major role in human male fertility, given its expression on both sertoli cells and spermatozoa.³ Doppel is differentially glycosylated, causing it to migrate at multiple sizes on SDS-PAGE.¹ Cayman's Doppel Polyclonal Antibody can be used for immunohistochemistry and Western blot applications. The antibody recognizes Doppel at 19 kDa (nonglycosylated) and 25 kDa (monoglycosylated) from human, mouse, and rat samples.

References

1. Silverman, G.L., Qin, K., Moore, R.C., *et al.* Doppel is an N-glycosylated, glycosylphosphatidylinositol-anchored protein. Expression in testis and ectopic production in the brains of Prnp^{0/0} mice predisposed to purkinje cell loss. *J. Biol. Chem.* **275**(35), 26834-26841 (2000).
2. Mastrangelo, P. and Westaway, D. The prion gene complex encoding PrP^C and Doppel: Insights from mutational analysis. *Gene* **275**, 1-18 (2001).
3. Peoc'h, K., Serres, C., Frobert, Y., *et al.* The human 'prion-like' protein doppel is expressed in both sertoli cells and spermatozoa. *J. Biol. Chem.* **277**(45), 43071-43078 (2002).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM