

Store at
-20C
#83017**hnRNP E2/PCBP2 (D1S5E) Rabbit mAb**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	35-45	Rabbit IgG	#Q15366	5094

Product Usage Information**Application**

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

hnRNP E2/PCBP2 (D1S5E) Rabbit mAb recognizes endogenous levels of total hnRNP E2/PCBP2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu243 of human hnRNP E2/PCBP2 protein.

Background

PCBP2 (also known as hnRNP E2) is an RNA-binding protein that interacts in a sequence-specific fashion with single-stranded poly (rC). Through their poly(rC)-binding ability, PCBPs regulate mRNA stability and translation (1,2). PCBP2 is an iron chaperone; it delivers iron to ferritin for storage and mediates metalation of certain iron-containing proteins (3-5). PCBP2 interacts with the iron importer DMT1 (divalent metal transporter 1) and the iron exporter FPN1 (ferroportin 1) and regulates their activities (6,7). PCBP2 is induced by viral infection and targets MAVS for polyubiquitination and degradation (8-10). Recent reports demonstrate that it is involved in Hippo signaling, miRNA processing, immune suppression, and cancer (11-15).

Background References

- Choi, H.S. et al. (2009) *Biochem Biophys Res Commun* 380, 431-6.
- Ren, C. et al. (2016) *J Biol Chem* 291, 9629-37.
- Leidgens, S. et al. (2013) *J Biol Chem* 288, 17791-802.
- Nandal, A. et al. (2011) *Cell Metab* 14, 647-57.
- Frey, A.G. et al. (2014) *Proc Natl Acad Sci U S A* 111, 8031-6.
- Yanatori, I. et al. (2014) *Biochem J* 462, 25-37.
- Yanatori, I. et al. (2016) *J Biol Chem* 291, 17303-18.
- You, F. et al. (2009) *Nat Immunol* 10, 1300-8.
- Xia, P. et al. (2015) *Nat Commun* 6, 8132.
- Lee, E.Y. et al. (2016) *Nat Immunol* 17, 1252-1262.
- Li, F. et al. (2016) *Mol Cell Biol* 36, 2121-31.
- Li, Y. et al. (2012) *Cell Metab* 15, 895-904.
- Hu, C.E. et al. (2014) *Biochem Biophys Res Commun* 448, 437-42.
- Murahashi, M. et al. (2016) *Biochem Biophys Res Commun* 476, 445-9.
- Chen, X. et al. (2014) *Biochem Biophys Res Commun* 446, 364-9.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.