Revision 1

Store at -20C

#12684

AFAP1L2/XB130 (D1B5) Rabbit mAb

Cell Signaling TECHNOLOGY®

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, IP	H Mk	Endogenous	130	Rabbit IgG	#Q8N4X5	84632

Product Usage Information

Application	Dilution
Western Blotting	1:1000
Immunoprecipitation	1:50

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

AFAP1L2/XB130 (D1B5) Rabbit mAb recognizes endogenous levels of total AFAP1L2/XB130 protein. In some cell extracts the antibody recognizes an 80 kDa background protein of unknown origin.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly638 of human AFAP1L2/XB130 protein.

Background

The actin-filament associated protein (AFAP) family consists of AFAP1, AFAP1L1, and AFAP1L2/XB130, a group of structurally similar proteins that play distinct roles in the regulation of cytoskeletal dynamics and signal transduction. Actin filament-associated protein 1-like 2 (AFAP1L2, XB130) is an adaptor protein that regulates signaling downstream of multiple kinases, including Src, Akt, and the thyroid specific kinase RET/PTC (1-3). Through these pathways, AFAP1L2/XB130 mediates transcriptional regulation, cell proliferation, motility, and microRNA expression (4,5). Research has shown that AFAP1L2/XB130 is involved in the proliferation and survival of thyroid tumor cells (6), and may have value in gastric cancer prognosis (7).

Background References

1. Xu, J. et al. (2007) *J Biol Chem* 282, 16401-12.
2. Shiozaki, A. et al. (2012) *PLoS One* 7, e43646.
3. Lodyga, M. et al. (2009) *Oncogene* 28, 937-49.
4. Lodyga, M. et al. (2010) *J Cell Sci* 123, 4156-69.
5. Takeshita, H. et al. (2013) *PLoS One* 8, e59057.
6. Shiozaki, A. et al. (2011) *Am J Pathol* 178, 391-401.
7. Shi, M. et al. (2012) *PLoS One* 7, e41660.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **Mk:** Monkey

Trademarks and Patents

Limited Uses

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.