

#12684 Store at -20°C

AFAP1L2/XB130 (D1B5) Rabbit mAb**Cell Signaling**
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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H Mk	Endogenous	130	Rabbit IgG	#Q8N4X5	84632

Product Usage Information**Application**Western Blotting
Immunoprecipitation**Dilution**1:1000
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**WB:** Western Blotting **IP:** Immunoprecipitation**Cross-Reactivity Key**

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

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