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F3/Contactin (D7D4X) Rabbit mAb



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Entrez-Gene Id: Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** WB $\mathsf{H}\,\mathsf{M}\,\mathsf{R}$ Endogenous 140 Rabbit IgG #Q12860 1272 **Product Usage** Application Dilution Information Western Blotting 1:1000 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. F3/Contactin (D7D4X) Rabbit mAb recognizes endogenous levels of total F3/contactin protein. The Specificity / Sensitivity antibody detects a 32 kDa protein of unknown identity in some tissue extracts. Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to Source / Purification residues surrounding Met774 of human F3/contactin protein. F3/contactin (CNTN, contactin 1) is a glycosylphosphatidylinositol (GPI)-anchored neural cell adhesion Background protein belonging to the immunglobulin protein superfamily (1). During early mammalian development, F3/contactin is expressed in granule neuronal progenitor (GNP) cells, where it was shown to promote GNP differentiation, in part by antagonizing sonic hedgehog (SHH)-mediated proliferation (2). Biochemical studies have shown that F3/contactin interacts with the phosphatase PTPRZ on the surface of oligodendrocyte precursor cells, an association that was shown to be essential for oligodendrocyte maturation (3). F3/contactin expression is also abundant in post-mitotic neurons, where its functions as a neural cell adhesion protein have been suggested to play an important role in synaptic plasticity and memory (4). Although primarily associated with neuronal development and function, F3/contactin expression has also been implicated in extra-neuronal tumorigenesis. For example, expression of F3/contactin was detected in both primary prostate tumors, and lymph node and bone metastases, while patient tumor samples with detectable F3/contactin expression were associated with tumor progression and reduced recurrance-free survival (5).

Background References

- 1. Falk, J. et al. (2002) Biol Cell 94, 327-34.
- 2. Xenaki, D. et al. (2011) Development 138, 519-29.
- 3. Lamprianou, S. et al. (2011) Proc Natl Acad Sci U S A 108, 17498-503.
- 4. Gulisano, W. et al. (2017) Mol Cell Neurosci 81, 64-71.
- 5. Yan, J. et al. (2016) Cancer Res 76, 1603-14.

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

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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