

#2915 Store at -20°C

Wnt Signaling Antibody Sampler Kit

1 Kit (9 x 20 microliters)



Cell Signaling
TECHNOLOGY®

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Wnt3a (C64F2) Rabbit mAb	2721	20 µl	42 kDa	Rabbit IgG
Wnt5a/b (C27E8) Rabbit mAb	2530	20 µl	45 kDa	Rabbit IgG
Phospho-LRP6 (Ser1490) Antibody	2568	20 µl	210 kDa	Rabbit
Dvl2 (30D2) Rabbit mAb	3224	20 µl	90 to 95 kDa	Rabbit
LRP6 (C47E12) Rabbit mAb	3395	20 µl	180, 210 kDa	Rabbit IgG
Dvl3 Antibody	3218	20 µl	88 to 93 kDa	Rabbit
Naked1 Antibody	2262	20 µl	59, 61 kDa	Rabbit
Naked2 (C67C4) Rabbit mAb	2073	20 µl	59, 61 kDa	Rabbit
Axin1 (C76H11) Rabbit mAb	2087	20 µl	110 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Wnt Signaling Antibody Sampler Kit provides an economical means of detecting integral proteins within the Wnt signaling pathway. The kit contains enough primary and secondary antibody to perform two Western blots with each.

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.

Background

The Wnt family includes several secreted glycoproteins that play important roles in animal development (1). Aberrant activation of Wnt signaling pathways is involved in several types of cancers (2). Wnt members bind to the Frizzled family of proteins and activate several signaling pathways (3). The canonical Wnt/ β -catenin pathway requires a coreceptor from proteins belonging to the low-density lipoprotein receptor (LDLR) family, such as LRP5 and LRP6 (4). Upon stimulation with Wnt, LRP6 is phosphorylated by kinases such as GSK-3 and CK1 and subsequently recruits Axin to the membrane (5-7). In the absence of Wnt stimulation, the multidomain scaffold proteins Axin1 and Axin2 negatively regulate Wnt signaling. Axin1 complexes with APC, GSK-3 β , Dvl and β -catenin and promotes the GSK-3 β -mediated phosphorylation and subsequent degradation of β -catenin (8-9). The Disheveled (Dsh) proteins (Dvl1, Dvl2 and Dvl3) inhibit glycogen synthase kinase-3 β , thereby promoting β -catenin stabilization (4,10). Naked inhibits the canonical Wnt/ β -catenin pathway by binding to Dsh proteins and directing Dsh activity towards the planar cell polarity pathway (11-12).

Background References

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