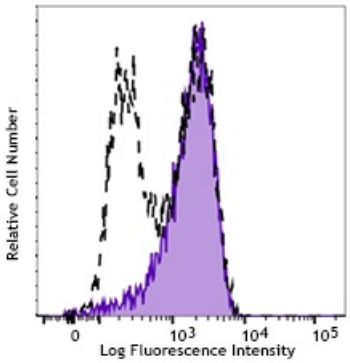
SONY

Product Data Sheet

PE anti-β Catenin 1

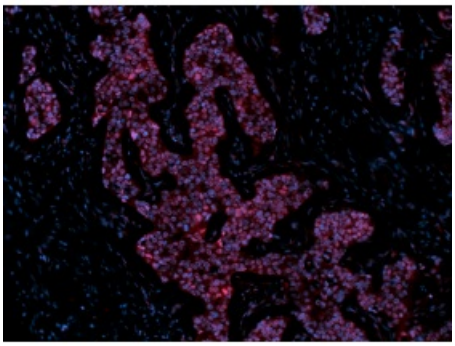
Catalog # / Size:	4913015 / 25 tests 4913020 / 100 tests
Clone:	15B8
Isotype:	Mouse IgG1, κ
Immunogen:	Recombinant β-catenin (N-terminal fragment) fused to MBP.
Reactivity:	Human, Mouse, Rat
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Workshop Number:	HCDM listed
Concentration:	Lot-specific



Human colon adenocarcinoma cell line SW480 treated (open historgram) or untreated (filled histogram) with tankyrase inhibitor XAV939 for 18 hours, then treated with True-Nuclear™ Transcription Factor Buffer set (Cat. No. 424401) and stained with anti-β Catenin 1 (clone 15B8) PE.

Applications:

Applications:	Intracellular Staining for Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 µL per million cells in 100 µL staining volume or 5 µL per 100 µL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	Additional reported applications (for the relevant formats) include: immunfluorescence microscopy[4] and immunohistochemical staining[3]. For *in vivo* studies or highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 844603) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/µg).



Formalin-fixed paraffin-embedded human breast cancer tissue slices were deparaffinized and rehydrated. Antigen retrieval was done with Tris-Buffered Saline 1X (1.0 M, pH 7.4) at 95°C for 40 minutes, washed with PBS/0.05% Tween 20 twice for five minutes, permeabilized with 0.5% Triton X-100 for ten minutes, and blocked with 5% FBS and 0.2% gelatin for 30 minutes. Then, the slices were stained with 5 µg/mL anti-EGFR (clone A19002A) Alexa Fluor® 647 (red) at 4°C overnight. Nuclei were counterstained with DAPI (green). The image was captured with a 10X objective.

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Application References:

1. Guo J, *et al.* 2018. *Cell Res.* 28:1141 (IHC-P)
2. Kisoh K, *et al.* 2017. *Mol Neurobiol.* 54:7917 (WB)
3. Uribe RA, *et al.* 2015. *J Cell Biol.* 4:815 (IHC-F)

Description: β catenin is part of a complex of proteins that constitute adherens junctions (AJs). AJs are necessary for the creation and maintenance of epithelial cell layers by regulating cell growth and adhesion between cells. The encoded protein also anchors the actin cytoskeleton and may be responsible for transmitting the contact inhibition signal that causes cells to stop dividing once the epithelial sheet is complete. β catenin also plays a key role in Wnt signaling pathways and thus is involved in neural differentiation, synaptic plasticity, neurodegenerative disease, and prevention of apoptosis. This protein also binds to adenomatous polyposis coli, which is mutated in the adenomatous polyposis of the colon.

Antigen References:

1. Dias C, *et al.* 2014. *Nature.* 516(7529): 51
2. Rosiles A, *et al.* 2016. *CNS Neurol Disord Drug Targets.* 15(1):3
3. Na K, *et al.* 2017. *Anticancer Res.* 37(6):3249
4. Zhu P, *et al.* 2018. *Cancer Res Treat.* 50(4):1452

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