

ELISAONE™ β -Catenin Assays

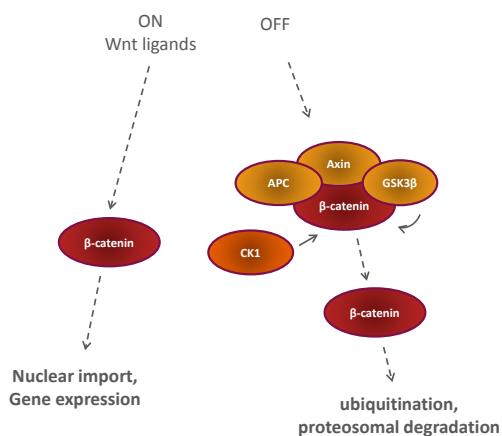
ELISAONE™ assay kits for analysis of cellular β -Catenin (p-Ser45) phosphorylation and Total β -Catenin

ELISAONE™ Overview

ELISAONE assay kits are for the detection of cellular proteins. A whole new way of performing cellular assays, ELISAONE takes the hard work out of running a standard ELISA, while still giving the high quality results expected from a sandwich immunoassay. Fully self-contained kits are supplied in a convenient 96-well format. Simple to use and highly sensitive, ELISAONE kits are designed to get results, fast.

ELISAONE™ phospho- β -catenin and Total β -catenin assays

β -catenin is part of a complex of proteins that constitute adherens junctions, and play an important role mediating cellular adhesion. β -catenin is also a key downstream effector in the Wnt signaling pathway.



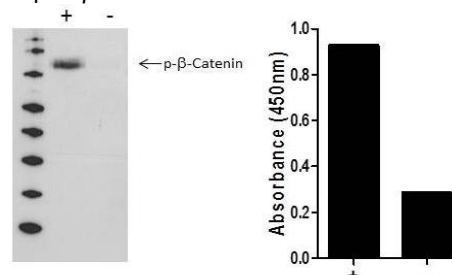
CK1 phosphorylates β -catenin on Ser45, which primes β -catenin for subsequent phosphorylation by GSK3 β at Ser33, Ser37 and Thr41. Phosphorylation by GSK3 β destabilizes β -catenin and targets it for ubiquitination and subsequent proteolytic degradation. β -catenin has also been found in complexes with the tumor suppressor protein APC. Mutations in APC are a cause of several cancer types, including colorectal cancer, pilomatrixoma, medulloblastoma and ovarian cancer.

ELISAONE™ β -catenin (p-Ser45) assay and Total β -catenin assay technical specifications

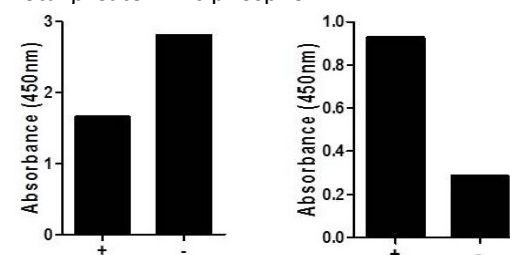
Specificity:

TGR's ELISAONE β -catenin (p-Ser45) assay kits detect endogenous levels of β -catenin (GenBank Accession NP_001895.1) in cellular lysates. Phospho- β -catenin assay kits only detect β -catenin when phosphorylated at Ser45. Total β -Catenin assay kits detect β -catenin irrespective of phosphorylation status. As shown, using the β -catenin assay kits or Western blot, β -catenin phosphorylation at Ser45 is detected in PMA/calyculin-treated A549 cells (+), compared with untreated A549 cells (-), consistent with Western blot results.

Phospho β -Catenin:



Total β -Catenin vs phospho:



Species cross-reactivity:

Tested: Human, Mouse

Expected: Rat

Other species should be tested on a case-by-case basis.

QC: Phospho- β -catenin and total β -catenin assays are routinely tested against PMA-treated A549 cellular lysates. See certificate of analysis for Lot-specific information. Available at www.tgrbio.com.

Ordering Information

ELISA^{ONE} Assay Kits are available now from:

CEDARLANE (www.cedarlanelabs.com)

US: 1-800-721-1644

CANADA: 1-800-268-5058

AXXORA (www.axxora.com)

US: 1-858-550-8830

Email: axxora-usa@axxora.com

Product	Pack Size	Catalog
Phospho- β -Catenin (S45)	96 assays	EOK023
Total β -Catenin	96 assays	EOK033

Complementary Products

ELISA^{ONE}[™] assay kits are available for the following targets:

MAPK Signaling:

ERK 1/2, p38 MAPK, JNK/SAPK, c-JUN

AKT Signaling:

AKT 1/2/3 (p-Thr308), AKT 1/2/3 (p-Ser473), p70S6K, ribosomal protein S6, GSK3 β , BAD

STAT Signaling:

STAT1, STAT3, STAT5

NF- κ B Signaling:

NF- κ B p65, I- κ B α , IKK α

p53 Signaling:

p53

Wnt Signaling:

β -Catenin, GSK3 β

TGF β Signaling:

SMAD1, SMAD3

Protein normalization:

GAPDH

Also available separately:

Product	Pack Size	Catalog
ELISA ^{ONE} [™] 96-well strip-well microplates	1 plate	EPL001
	5 plates	EPL002
5X Lysis Buffer	100mL	EBF001
Enhancer Solution	100mL	EBF002
10X Wash Buffer	500mL	EBF003

Check our website (www.tgrbio.com) for the latest information on target availability.