

# GSK3 beta [pS9] Rabbit Recombinant Oligoclonal Antibody - Purified

Publication Part no. MAN0004989 Rev. Date: 21 August 2011

Catalog Number: 710100 Store at 2–8°C

 Clonality:
 Oligoclonal
 Host/Class:
 Rabbit IgG

 Concentration:
 0.5 mg/mL
 Reactivity:
 Human GSK3 beta

Quantity: $100 \, \mu g$ Predicted Reactivity:HumanVolume: $200 \, \mu L$ 

# **Product Description**

GSK3 beta belongs to the subfamily of glycogen synthase kinases, that plays a central role in energy metabolism, neuronal cell development, and body pattern formation. GSK3 alpha and GSK3 beta are two isoforms with molecular weights of 51 kDa and 47 kDa respectively. The two isoforms have dissimilar function. GSK3 beta plays a key role in insulin and Wnt signaling. The phosphorylation at Ser<sup>9</sup> of GSK3 beta is shown to inhibit its kinase activity.

# **Product Specifications**

**Immunogen:** Phosphopeptide corresponding to

amino acids 5–13 aa of Human GSK3

beta

Alternate Names: GSK3B
Apparent MW: ~47 kDa
Gene ID: 2932
Protein Accession No.: P49841
Sequence Identity: Human

**Sequence Homology:** Monkey, Rat and Mouse

Clone/PAD: 9HCLC

Lot: See product label

#### **Product Applications**

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	2–5 μg/mL
Indirect ELISA	Human	Phosphopeptide	1.5x10 <sup>-4</sup> to 3 μg/mL

#### Storage and Handling

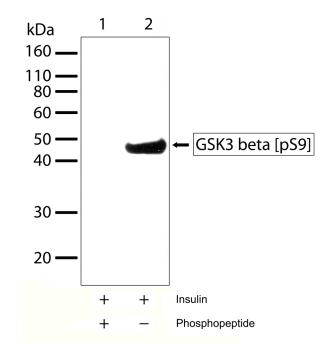
Store the antibody at 2–8°C for up to 1 month, or –20°C for long storage. Avoid repeated freezing and thawing.

#### Stability

Expires one year from date of receipt when stored as instructed.

## Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



**Figure 1** Western blot analysis of GSK3 beta [pS9] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710100). Western blot analysis was performed on whole cell extracts of HeLa treated with Insulin (100 ng/mL for 15 minutes, lanes 1 and 2). A band corresponding to phosphorylated GSK3 beta at ~47 kDa was detected using GSK3 beta [pS9] Rabbit Recombinant Oligoclonal Antibody at a concentration of 2.5  $\mu$ g/mL (lane 2). To confirm specificity, competition was performed with the phosphopeptide (lane 1).

### Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at www.invitrogen.com/sds.

### Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to <a href="https://www.invitrogen.com/support">www.invitrogen.com/support</a> and search for the Certificate of

Analysis by product lot number, which is printed on the box.

#### Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze <sup>™</sup> Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze <sup>™</sup> Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

Explanation of symbols					
Symbol	Description	Symbol	Description		
REF	Catalogue Number	LOT	Batch code		
RUO	Research Use Only	IVD	In vitro diagnostic medical device		
$\overline{X}$	Use by	· ·	Temperature limitation		
***	Manufacturer	EC REP	European Community authorised representative		
[-]	Without, does not contain	[+]	With, contains		
from Light	Protect from light	<u> </u>	Consult accompanying documents		
$\prod_i$	Directs the user to consult instructions for use (IFU), accompanying the product.				

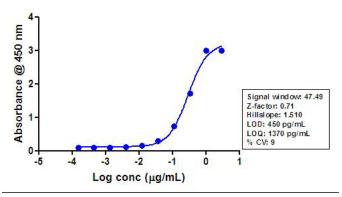


Figure 2 Indirect ELISA of GSK3 beta [pS9] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710100). Indirect ELISA was performed using various dilutions of GSK3 beta [pS9] Rabbit Recombinant Oligoclonal Antibody (Cat. no. 710100) to detect phospho GSK3 beta [pS9] peptide coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

# Limited Use Label License: Research Use Only

The purchase of this product conveys to the purchaser the limited, non-transferable right to use the purchased amount of the product only to perform internal research for the sole benefit of the purchaser. No right to resell this product or any of its components is conveyed expressly, by implication, or by estoppel. This product is for internal research purposes only and is not for use in commercial applications of any kind, including, without limitation, quality control and commercial services such as reporting the results of purchaser's activities for a fee or other form of consideration. For information on obtaining additional rights, please contact outlicensing@lifetech.com or Out Licensing, Life Technologies, 5791 Van Allen Way, Carlsbad, California 92008.

©2011 Life Technologies Corporation. All rights reserved. The trademarks mentioned herein are the property of Life Technologies Corporation or their respective owners.

