

## ABfinity™ GSK3beta Recombinant Rabbit Monoclonal Antibody

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Rev. 1.00

Catalog Number: 701102

Store at 2 to 8°C (short-term), or -20°C (long-term)

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 100 µg  
**Volume:** 200 µL

**Host/Class:** Rabbit IgG  
**Reactivity:** Human GSK3 beta  
**Predicted Reactivity:** Human

### Product Description

Glycogen synthase kinase-3 beta (GSK3 beta) belongs to the subfamily of glycogen synthase kinases, that play a central role in energy metabolism, neuronal cell development, and body pattern formation. GSK3 has alpha and beta isoforms (51 kDa and 47 kDa respectively), that are functionally dissimilar. GSK3 beta plays a role in insulin and Wnt signaling, and is inhibited following the extracellular signaling events.

### Product Specifications

**Immunogen:** Recombinant protein corresponding to amino acids 317–433 of human GSK3 beta  
**Alternate Names:** GSK3B  
**Apparent MW:** ~47 kDa  
**Gene ID:** 2932  
**Protein Accession No.:** P49841  
**Sequence Identity:** Human  
**Sequence Homology:** Mouse, Rat, Monkey  
**Clone/PAD:** 1H9L3  
**Lot:** See product label

### Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human, Monkey	HeLa, HEK-293, HepG2, Jurkat, MCF7, Colo-205, A431, Cos7, and DU-145 cells	0.1–0.5 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 <sup>-4</sup> to 3 µg/mL

### Storage and Handling

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

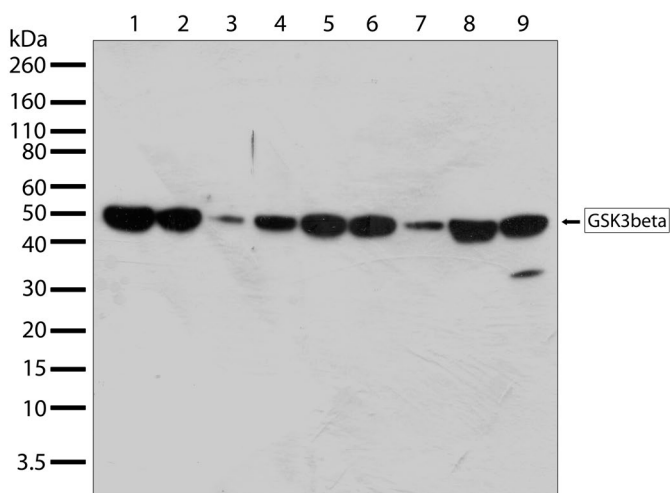
### Stability

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

### Storage Buffer

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

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.



**Figure 1** Western blot analysis of ABfinity™ GSK3beta Recombinant Rabbit Monoclonal Antibody (Cat. no. 701102). Western blot analysis was performed on whole cell extracts of HeLa (lane 1), HEK-293 (lane 2), HepG2 (lane 3), Jurkat (lane 4), MCF7 (lane 5), Colo-205 (lane 6), A431 (lane 7), Cos7 (lane 8), and DU-145 (lane 9). Endogenous GSK3beta at ~47 kDa was detected using ABfinity™ GSK3beta Recombinant Rabbit Monoclonal Antibody at a concentration of 0.1 µg/mL. The blot was developed using chemiluminescence (ECL) method.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Related Products

Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® 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

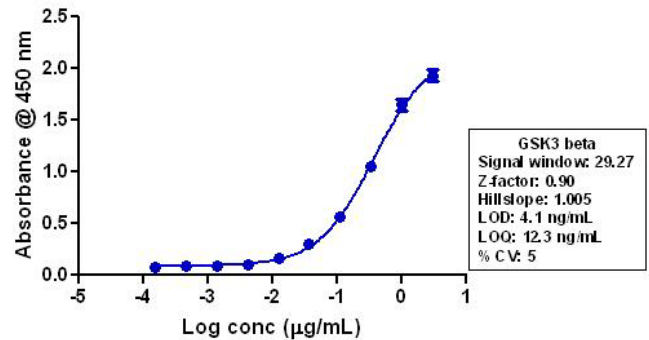
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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**Figure 2** Indirect ELISA of ABfinity™ GSK3beta Recombinant Rabbit Monoclonal Antibody (Cat. no. 701102). Indirect ELISA was performed using various dilutions of ABfinity™ GSK3beta Recombinant Rabbit Monoclonal Antibody (Cat. no. 701102) to detect recombinant GSK3beta protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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