

## Product datasheet for **AM26738PU-N**

### Glycogen Synthase Kinase-3 (GSK3) (phospho specific) Mouse Monoclonal Antibody [Clone ID: 7G-1F2]

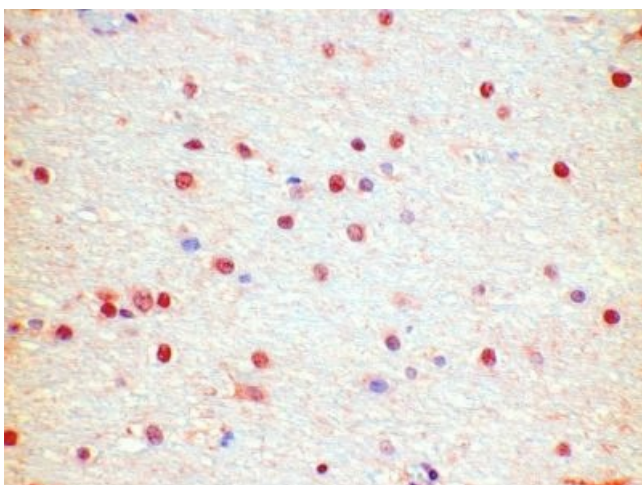
#### Product data:

Product Type:	Primary Antibodies
Clone Name:	7G-1F2
Applications:	IHC
Recommended Dilution:	<b>Immunohistochemistry on paraffin sections:</b> 1 µg/ml (1:200). Microwave pretreatment in citrate buffer is recommended for antigen retrieval. <i>Suggested positive control:</i> Human brain.
Reactivity:	Human, Porcine, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic peptide conjugate corresponding to Drosophila
Specificity:	This antibody recognizes GSK-3 in most species. The antibody was generated against the phosphorylated catalytic domain (between sub-domain VII and VIII) of the Drosophila GSK-3 / shaggy enzyme, containing the phospho-Tyrosine 279 of human GSK-3 $\alpha$ and phospho-Tyrosine 216 of human GSK-3 $\beta$ , respectively. This antibody does not react with GSK-3 or shaggy expressed in E. coli, but will react with the corresponding natural enzyme or the one expressed in Sf9 cells. The observed preference for the phosphorylated form is about 50:1. The antigen has been described in the testis, thymus, prostate and ovary, weak in the brain, lung and kidney.
Formulation:	Phosphate buffered saline pH 7.2 (PBS) State: Purified State: Lyophilized affinity purified Ig fraction Stabilizer: 5 mg/ml bovine serum albumin (BSA) Preservative: 0.01% Kathon
Reconstitution Method:	Reconstitute by adding 0.5 ml distilled water. This stock solution contains 0.2 mg/ml IgG.
Conjugation:	Unconjugated

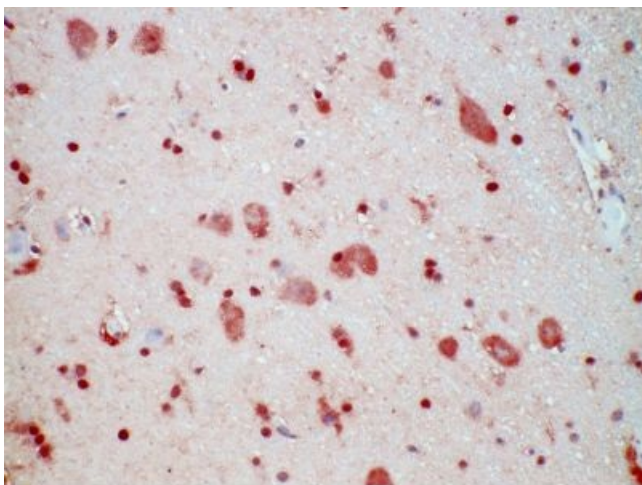


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- Storage:** Store lyophilized at 2-8°C for 6 month or at -20°C long term.  
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.  
Avoid repeated freezing and thawing.
- Stability:** Shelf life: one year from despatch.
- Background:** GSK-3 has been highly conserved during evolution, and homolog genes have been identified in virtually every eukaryotic genome investigated. In mammals, GSK-3 is encoded by two genes known as gsk-3  $\alpha$  and gsk-3 $\beta$  encoding GSK-3 $\alpha$  (483 aa in humans) and GSK-3 $\beta$  (433 aa) proteins with apparent molecular masses of 51 and 47kDa, respectively. Both isoforms are almost identical (98%) within their ATP binding pocket but differ in their N- and C- terminal sequences.

**Product images:**

Immunohistochemistry on paraffin sections:  
Human cortex, stained with AM26738PU-N.



Immunohistochemistry on paraffin sections:  
Swine brain cortex, stained with AM26738PU-N.