

Datasheet: PHP183

Description:	RECOMBINANT HUMAN WNT-1
Name:	WNT-1
Other names:	WNT-1 PROTO-ONCOGENE PROTEIN
Format:	Rec. Protein
Product Type:	Recombinant Protein
Quantity:	10 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Functional Assays	■			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified recombinant protein - lyophilised
Reconstitution	Reconstitute with 100ul distilled water. Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.
Preparation	Purified recombinant Wnt-1 expressed in <i>E.coli</i> .
Preservative Stabilisers	None present
Endotoxin Level	<1EU/ug
Approx. Protein Concentrations	0.1mg/ml
External Database Links	UniProt: P04628 Related reagents Entrez Gene: 7471 WNT1 Related reagents
Synonyms	INT1

Product Information	Wnt-1, formerly known as int-1, is a non-glycosylated secreted protein associated with the extracellular matrix, involved in normal embryonic development and particularly linked with breast cancer. Wnt-1, which signals through binding to the Frizzled family of transmembrane receptors, was originally identified as a proto-oncogene implicated in carcinomas induced by the mouse mammary tumour virus (MMTV). Wnt-1 belongs to a family of Wnt genes involved in the dorso-ventricular development of the mesoderm during embryogenesis, with a restricted temporal and spatial pattern of expression.
Molecular Weight	38.4kD (343 amino acid residues).
Activity	The ED ₅₀ was determined by its ability to enhance BMP-2 induced alkaline phosphatase production by murine ATDC5 cells. The expected ED ₅₀ for this effect is 1.5 - 2.5 ng/ml in the presence of 200 ng/ml of human BMP-2.
Purity	>98% by SDS PAGE and HPLC analysis.
References	1. Gherghe, C.M. <i>et al.</i> (2011) Wnt1 is a proangiogenic molecule, enhances human endothelial progenitor function, and increases blood flow to ischemic limbs in a HGF-dependent manner. FASEB J. 25: 1836-43. 2. Maguschak, K.A. & Ressler, K.J. (2011) Wnt signaling in amygdala-dependent learning and memory. J Neurosci. 31 (37): 13057-67.
Storage	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	3 months from date of reconstitution.
Health And Safety Information	Material Safety Datasheet documentation #10268 available at: 10268: https://www.bio-rad-antibodies.com/uploads/MSDS/10268.pdf
Regulatory	For research purposes only

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