Recombinant Human NRG2

Cat. No. NRG2-266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NRG2, encoding Human NRG2 full-length ORF (AAI66615.1), was expressed in Wheat germ.
Species	Human
Source	Wheat Germ
Description	This gene encodes a novel member of the neuregulin family of growth and differentiation factors. Through interaction with the ERBB family of receptors, this protein induces the growth and differentiation of epithelial, neuronal, glial, and other types of cells. The gene consists of 12 exons and the genomic structure is similar to that of neuregulin 1, another member of the neuregulin family of ligands. The products of these genes mediate distinct biological processes by acting at different sites in tissues and eliciting different biological responses in cells. This gene is located close to the region for demyelinating Charcot-Marie-Tooth disease locus, but is not responsible for this disease. Alternative transcript variants encoding distinct isoforms have been described.
Form	Liquid
Molecular Mass	93.8 kDa
AA Sequence	MRQVCCSALPPPPLEKGRCSSYSDSSSSSSERSSSSSSSSSESGSSSRSSSNNSSI SRPAAPPEPRPQQQPQPRSPAARRAAARSRAAAAGGMRRDPAPGFSMLLFGVSLA CYSPSLKSVQDQAYKAPVVVEGKVQGLVPAGGSSSNSTREPPASGRVALVKVLDK

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	WPLRSGGLQREQVISVGSCVPLERNQRYIFFLEPTEQPLVFKTAFAPLDTNGKNLKK EVGKILCTDCATRPKLKKMKSQTGQVGEKQSLKCEAAAGNPQPSYRWFKDGKELN RSRDIRIKYGNGRKNSRLQFNKVKVEDAGEYVCEAENILGKDTVRGRLYVNSVSTTL SSWSGHARKCNETAKSYCVNGGVCYYIEGINQLSCKCPVGYTGDRCQQFAMVNFS KHLGFELKEAEELYQKRVLTITGICVALLVVGIVCVVAYCKTKKQRKQMHNHLRQNM CPAHQNRSLANGPSHPRLDPEEIQMADYISKNVPATDHVIRRETETTFSGSHSCSPS HHCSTATPTSSHRHESHTWSLERSESLTSDSQSGIMLSSVGTSKCNSPACVEARAR RAAAYNLEER RRATAPPYHDSVDSLRDSPHSERYVSALTTPARLSPVDFHYSLATQ VPTFEITSPNSAHAVSLPPAAPISYRLAEQQPLLRHPAPPGPGPGPGPGPGPGADM QRSYDSYYYPAAGPGPRRGTCALGGSLGSLPASPFRIPEDDEYETTQECAPPPPPR PRARGASRRTSAGPRRWRRSRLNGLAAQRARAARDSLSLSSGSGGGSASASDDD ADDADGALAAESTPFLGLRGAHDALRSDSPPLCPAADSRTYYSLDSHSTRASSRHS RGPPPRAKQDSAPL
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name	NRG2 neuregulin 2 [Homo sapiens]
Official Symbol	NRG2
Synonyms	NRG2; neuregulin 2; pro-neuregulin-2, membrane-bound isoform; divergent of neuregulin 1; Don 1; HRG2; neural and thymus derived activator for ErbB kinases; NTAK; pro-NRG2; divergent of neuregulin-1; neural- and thymus-derived activator for ErbB kinases; DON1;
Gene ID	9542

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mRNA Refseq	NM_001184935
Protein Refseq	NP_001171864
MIM	603818
UniProt ID	O14511
Chromosome Location	5q23-q33
Pathway	Downregulation of ERRB2:ERBB3 signaling, organism-specific biosystem; ErbB receptor signaling network, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, organism-specific biosystem; ErbB signaling pathway, conserved biosystem; ErbB2/ErbB3 signaling events, organism-specific biosystem; GRB2 events in ERBB2 signaling, organism-specific biosystem;
Function	ErbB-3 class receptor binding; epidermal growth factor receptor binding; epidermal growth factor-activated receptor activity; growth factor activity; receptor binding;

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