

Recombinant Human Anterior Gradient Homolog 3 (Xenopus laevis), His-tagged

Cat. No. AGR3-4959H Lot. No. (See product label)

SPECIFICATION

Product Overview	AGR3, also known as anterior gradient protein 3 homolog precursor, is a secreted cytoplasmic protein which is involved in metastasis induction and p53 tumour suppressor inhibition. It may serve as molecular marker and potential therapeutic target for hormone-responsive breast tumours.
Species	Human
Source	Human
Description	Pleiotrophin and Midkine are structurally related heparin-binding neurotrophic factors, whose expression is developmentally regulated. The expression pattern of these neurotrophic factors suggests function in neurogenesis, cell migration, secondary organogenetic induction, and mesoderm epithelial interaction. The expression of PTN increases during the process of brain embryogenesis and reaches maximum levels at time of birth. The physiological roles of PTN and Midkine are largely unknown, but these neurotrophins have been implicated in the pathogenesis of neuroblastomas.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20 mM Tris-HCl buffer, pH 8.0, containing 20% glycerol, 0.1 M NaCl and 1 mM DTT.
Purity	> 90% pure by SDS-PAGE

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Sequence	22-166 amino acids:MGSSHHHHHSSGLVPRGSHMGSMIAIKKEKRPPQTLRGW GDDITWVQTYEEGLFYAQKSKKPLMVIHHLEDCQYSQALKKVFAQNEEIQEMAQNK FIMLNLMHETTDKNLSPDGQYVPRIMFVDPSLTVRADIAGRYSNRLYTYEPRDLPLLI ENMKKALRLIQSEL
Molecular Mass	19.5 kDa (169 aa),confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C forshort term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg Cfor long term storage. Avoid repeated freeze/thaw cycles.
OfficialSymbol	AGR3

GENE INFORMATION

Gene Name	AGR3 anterior gradient homolog3 (Xenopus laevis) [Homo sapiens]
Synonyms	AGR3; anteriorgradient homolog 3 (Xenopus laevis); HAG3; hAG-3; BCMP11; PDIA18; anteriorgradient protein 3 homolog; anterior gradient protein 3 homolog; AG- 3;OTTHUMP00000158512; OTTHUMP00000201702; OTTHUMP00000201703; breast cancermembrane protein 11; protein disulfide isomerase family A, member 18; breastcancer membrane protein 11; AG3; Anterior gradient protein 3 homolog
Gene ID	155465
mRNA Refseq	NM_176813
Protein Refseq	NP_789783
MIM	609482

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UniProt ID	Q8TD06
Chromosome Location	7p21.1
Function	alpha-dystroglycanbinding

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