

# Recombinant mouse AG-2/AGR2 protein

Catalog Number: ATGP3525

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

21-175aa

### UniProt No.

O88312

### NCBI Accession No.

NP\_035913

### Alternative Names

Anterior gradient protein 2 homolog, Agr2h, Gob-4, HAG-2, mAG-2, XAG-2

## PRODUCT SPECIFICATION

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### Molecular Weight

20.5 kDa (180aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 1mM EDTA

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Agr2, also known as anterior gradient protein 2 homolog, is the orthologue of the secreted *Xenopus laevis* Anterior Gradient protein (XAG-2). This is a small, possibly secreted molecule of yet weakly defined functions that is widely expressed in human tissues. Expression of Agr2 shows a positive correlation with expression of estrogen receptor in breast carcinoma and a negative correlation with expression of EGF receptor. Recombinant mouse Agr2, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

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### Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MGSHMKDTTV KSGAKKDPKD SRPKLPQTLS RGWGDQLIWT QTYEEALYRS KTSNRPLMVI  
HHLDECPHSQ ALKKVFAEHK EIQLAEQFV LLNLVYETTD KHLSPDGQYV PRIVFVDPSL TVRADITGRY SNRLYAYEPS  
DTALLYDNMK KALKLLKTEL

### General References

Fritzsche FR. et al.,(2007) *Histol Histopathol.* 22(7):703-8

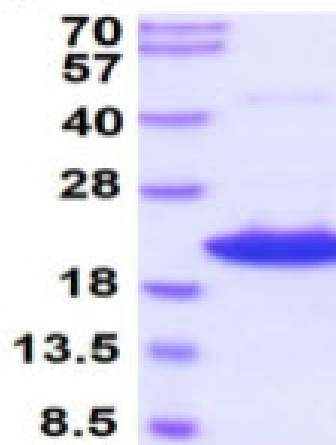
Fletcher GC. et al.,(2003) *Br J Cancer.* 88(4): 579-85

Liu D. et al.,(2005) *Cancer Res.* 65(9):3796-805

## DATA

### SDS-PAGE

(kDa)



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)