



TEL:4006-871-227 Web:www.ybio.net Email:shybio@126.com

**YB92285Hu01**

**Anterior Gradient Protein 2 (AGR2)**

**Organism: Homo sapiens (Human)**

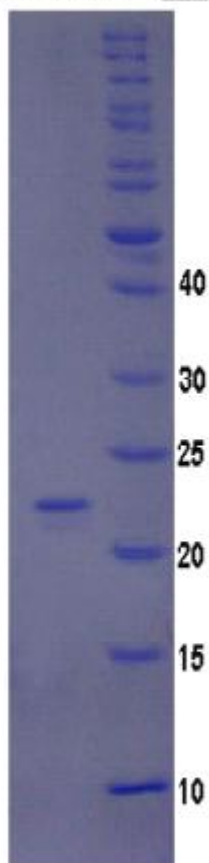
***Instruction manual***

FOR IN VITRO USE AND RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

1th Edition (Revised in February, 2012)

Human AGR2 kDa



15% Tris-glycine SDS-PAGE

## **[ DESCRIPTION ]**

**Protein Names:** Anterior Gradient Protein 2

**Gene Names:** AGR2, AG2

**Size:** 50μg

**Source:** Recombinant

**Expression Host:** *E.coli*

**Function:** Required for MUC2 post-transcriptional synthesis and secretion. May play a role in the production of mucus by intestinal cells By similarity. Proto-oncogene that may play a role in cell migration, cell differentiation and cell growth.

**Subcellular Location:** Secreted. Endoplasmic reticulum.

**Tissue Specificity:** Expressed strongly in trachea, lung, stomach, colon, prostate and small intestine. Expressed weakly in pituitary gland, salivary gland, mammary gland, bladder, appendix, ovary, fetal lung, uterus, pancreas, kidney, fetal kidney, testis, placenta, thyroid gland and in estrogen receptor (ER)-positive breast cancer cell lines.

## **[ PROPERTIES ]**

**Residues:** Arg21-Leu175 (Accession # O95994), with N-terminal His-tag.

**Grade & Purity:** >90%, 23.53 kDa as determined by SDS-PAGE reducing conditions.

**Form & Buffer:** Supplied as solution form in 12mM Sodium phosphate,150mM Sodium chloride, containing 20% glycerol and 300mM imidazole.

**Endotoxin Level:** <1.0 EU per 1μg(determined by the LAL method).

**Applications:** SDS-PAGE; WB; ELISA; IP.

(May be suitable for use in other assays to be determined by the end user.)

**Predicted Molecular Mass:** 23.53 kDa

## **[ PREPARATION ]**



TEL:4006-871-227 Web:www.ybio.net Email:shybio@126.com

Reconstitute in PBS.

### **[ STORAGE AND STABILITY ]**

**Storage:** Store at 4°C for short term storage (1-2 weeks). Aliquot and store at -20°C or -80°C for long term storage. Avoid repeated freeze/thaw cycles.

**Valid period:** 12 months stored at -80°C.

### **[ BACKGROUND ]**

The target protein is fused with two N-terminal tags, His-tag and S-tag, its sequence is listed below.

MHHHHHHSSGLVPRGSGMKETAALKFERQHMDSPDLGTDKKAMADIGSEF-RDITTVKPGAK  
KDTKDSRPKL PQTLSRGWGD QLIWTQTYEE ALYKSKTSNK PLMIHHLDE CPHSQALKKV FAENKEIQKL  
AEQFVLLNLV YETTDKHLSP DGQYVPRIMF VDPSLTVRAD ITGRYSNRLY AYEPADTALL LDNMKKALKL  
LKTEL

### **[ REFERENCES ]**

1. Zhang J.-S., et al. (2005) Genes Chromosomes Cancer 43:249-259.
2. Petek, E., et al. (2000) Cytogenet. Cell Genet. 89: 141-142.
3. Thompson D.A., et al. (1998) Biochem. Biophys. Res. Commun. 251:111-116.
4. Wang Z., et al. (2008) Cancer Res. 68:492-497.
5. Park S.-W., et al. (2009) Proc. Natl. Acad. Sci. U.S.A. 106:6950-6955.
6. Fletcher G.C., et al. (2003) Br. J. Cancer 88:579-585.