

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human AG-2/AGR2 in direct ELISA and Western blots. In direct ELISAs, approximately 20% cross-reactivity with recombinant human AG-3 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human AG-2/AGR2 Arg21-Leu175 Accession # O95994
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

AG-2 (Anterior gradient protein 2; also AGR2, GOB4 and HPC8) is an 18-21 kDa member of the PDI family of enzymes. It is expressed in secretory cell types, such as prostate epithelium, small intestine goblet, Paneth and enteroendocrine cells, and multiple carcinoma cell types. Although AG-2 possesses a signal sequence, it appears to be rarely secreted, instead being found in the ER due the presence of a KTEL ER retention signal at its C-terminus. AG-2 forms transient disulfide linkages with molecules destined for secretion, possibly aiding protein folding. Mature human AG-2 is 155 amino acids (aa) in length (aa 21-175). Cys81 is presumed to participate in intermolecular bond formation. There is one potential alternative start site 20 aa upstream of the standard start site. Over aa 21-175, human AG-2 shares 94% aa identity with mouse AG-2.

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