

DATASHEET

PGHS-2 Rabbit Monoclonal Antibody(C3137)

CAT. NO. AMA02749

KEY FEATURES

| | | | |
|---------------|---|---------------|--------------|
| Target | PGHS-2 | Source / Host | Rabbit |
| Reactivity | Human, Mouse, Rat | Clonality | Monoclonal |
| Applications | WB, IHC | Conjugation | Unconjugated |
| Form / Buffer | Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA. | Storage | at-20°C |

BACKGROUND

Dual cyclooxygenase and peroxidase in the biosynthesis pathway of prostanoids, a class of C20 oxylipins mainly derived from arachidonate ((5Z,8Z,11Z,14Z)-eicosatetraenoate, AA, C20:4(n-6)), with a particular role in the inflammatory response - eicosatetraenoate, AA, C20:4(n-6)), with a particular role in the inflammatory response . The cyclooxygenase activity oxygenates AA to the hydroperoxy endoperoxide prostaglandin G2 (PGG2), and the peroxidase activity reduces PGG2 to the hydroxy endoperoxide prostaglandin H2 (PGH2), the precursor of all 2-series prostaglandins and thromboxanes .

APPLICATION

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

| | |
|-----|----------------|
| WB | 1:500 - 1:1000 |
| IHC | 1:50 - 1:100 |

*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

PRODUCT OVERVIEW

| | |
|-------------------|---|
| Description | Rabbit monoclonal antibody to PGHS-2 |
| Specificity | Recognizes endogenous levels of PGHS-2 protein. |
| Antibody Type | Primary antibody |
| Immunogen | A synthetic peptide of human COX2 |
| Purification | The antibody was purified by immunogen affinity chromatography. |
| Molecular Weight | Predicted: 69 kD; Observed: 69 kD |
| Form/Buffer | Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA. |
| Alternative Names | COX2; Prostaglandin G/H synthase 2; Cyclooxygenase-2; COX-2; PHS II; Prostaglandin H2 synthase 2; PGH synthase 2; PGHS-2; Prostaglandin-endoperoxide synthase 2 |
| Gene Symbol | PTGS2 |
| Entrez Gene | 5743(Human); 19225(Mouse); 29527(Rat) |
| SwissProt | P35354(Human); Q05769(Mouse); P35355(Rat) |

*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact info@arexbio.com or your local distributor.

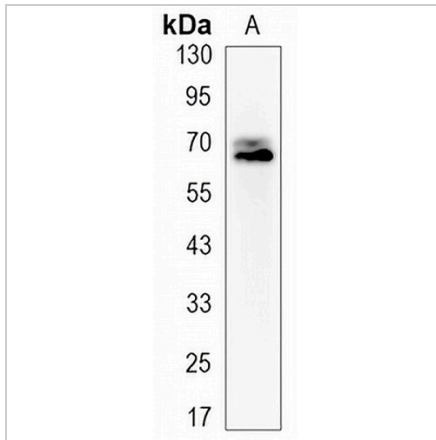
*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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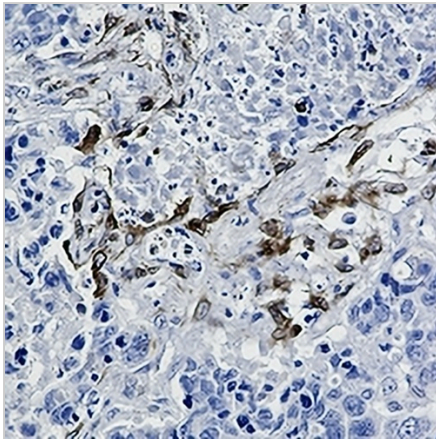
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DATA



Western blot analysis of PGHS-2 expression in rat brain (A) whole cell lysates. (Predicted band size: 69 kD; Observed band size: 69 kD)



Immunohistochemical analysis of PGHS-2 staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

STORAGE

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.