

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human 15-PGDH/HPGD in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human 15-PGDH/HPGD Met1-Gln266 Accession # P15428
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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

HPGD, or 15-hydroxyprostaglandin dehydrogenase, is a NAD⁺-linked dehydrogenase that oxidizes the hydroxyl group at position 15 of prostaglandins to a ketone, resulting in a loss of biological activity (1). HPGD is a major enzyme for the catabolism of prostaglandins. The enzyme is a member of the short-chain alcohol dehydrogenase family of enzymes (2). HPGD is a cytosolic enzyme expressed in most tissues, with highest expression levels in placenta, lung, and kidney (3). It is inhibited by aspirin and nonsteroidal anti-inflammatory drugs (4). Defects in HPGD are a cause of hypertrophic osteoarthropathy (5).

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