

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Angiopoietin-2 in direct ELISAs and Western blots. In direct ELISAs, less than 2% cross-reactivity with recombinant human Angiopoietin-2, recombinant mouse (rm) Angiopoietin-1, and rmAngiopoietin-3 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Angiopoietin-2 Asp68-Phe496 Accession # O35608
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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

Angiopoietin-2 (Ang-2; also ANGPT2) is a secreted 66-70 kDa glycoprotein member of the angiopoietin family of growth factors. It is expressed by endothelial cells, macrophages and skeletal muscle fibers, and binds to the Tie2 receptor on select cell types, including endothelial cells and monocytes. Ang-2 has multiple functions. In the presence of growth factors, it promotes angiogenesis; in the absence of growth factors, it induces vascular regression. It is generally considered to be an antagonist of Ang-1 activity. Mature mouse Ang-2 is 478 amino acids (aa) in length (aa 19-496). It contains one coiled-coil region (aa 159-256) plus a C-terminal Fibrinogen-like domain (aa 275-495). Mouse Ang-2 undergoes covalent oligomerization, forming 140 kDa homodimers and 280 kDa homotetramers. The higher-order oligomers are strong Tie-2 agonists. Over aa 68-496, mouse Ang-2 shares 87% and 96% aa sequence identity with human and rat Ang-2, respectively.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.