

## Anti-Angiopoietin-1 Antibody (7M254)

## Product Details

|               |              |
|---------------|--------------|
| Ig Type:      | Mouse IgG2a  |
| Reactivity:   | Human        |
| Conjugation:  | Unconjugated |
| Clone:        | 7M254        |
| Purification: | Protein A    |

## Applications

|              |                      |
|--------------|----------------------|
| Application: | ELISA                |
| Recommended  | ELISA: 1:1000-1:2000 |

## Properties

|                      |  |
|----------------------|--|
| Stability & Storage: | Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free. |
| Shipping:            | Shipping with blue ice.  |

## Antigen Details

|                  |   |
|------------------|---|
| Immunogen:       | Recombinant Protein: Human Angiopoietin-1/ANGPT1 Protein (TMPY-05435) |
| Antigen Species: | Human   |
| Biology Area:    | Cancer Drug Targets   |

## Research Background

The angiopoietin (ANGPT)-TIE2/TEK signaling pathway is essential for blood and lymphatic vascular homeostasis. ANGPT1 is a potent TIE2 activator, whereas ANGPT2 functions as a context-dependent agonist/antagonist. In disease, ANGPT2-mediated inhibition of TIE2 in blood vessels is linked to vascular leak, inflammation, and metastasis. Primary congenital glaucoma (PCG) is a leading cause of blindness in children worldwide and is caused by developmental defects in 2 aqueous humor outflow structures, Schlemm's canal (SC) and the trabecular meshwork. We previously identified loss-of-function mutations in the angiopoietin (ANGPT) receptor TEK in families with PCG and showed that ANGPT/TEK signaling is essential for SC development. A role for the major ANGPT ligands in the development of the aqueous outflow pathway. We determined that ANGPT1 is essential for SC development, and that Angpt1-knockout mice form a severely hypomorphic canal with elevated intraocular pressure. By linking ANGPT1 with PCG, these results highlight the importance of ANGPT/TEK signaling in glaucoma pathogenesis and identify a candidate target for therapeutic development.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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