



[Go to Product page](#)

Datasheet for ABIN2745570

## anti-TEK antibody (Extracellular Domain)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	TEK
Binding Specificity:	Extracellular Domain
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TEK antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS)

#### Product Details

Immunogen:	Recombinant human soluble extracellular domain of TIE-2.
Clone:	Tek2
Isotype:	IgG1
Specificity:	Native human TIE-2 in ELISA experiments and on the surface of different human cell types.
Cross-Reactivity:	Human
Purification:	Protein G purified.

#### Target Details

Target:	TEK
Alternative Name:	TIE-2 ( <a href="#">TEK Products</a> )

## Target Details

---

**Background:** TIE-2 acts as cell-surface receptor for ANGPT1, ANGPT2 and ANGPT4 and regulates angiogenesis, endothelial cell survival, proliferation, migration, adhesion and cell spreading, reorganization of the actin cytoskeleton, but also maintenance of vascular quiescence. It has anti-inflammatory effects by preventing the leakage of proinflammatory plasma proteins and leukocytes from blood vessels. It is required for normal angiogenesis and heart development during embryogenesis and for post-natal hematopoiesis. After birth, it activates or inhibits angiogenesis, depending on the context. It inhibits angiogenesis and promotes vascular stability in quiescent vessels, where endothelial cells have tight contacts. In migrating endothelial cells that lack cell-cell adhesions, ANGPT1 recruits TEK to contacts with the extracellular matrix, leading to the formation of focal adhesion complexes, activation of PTK2/FAK and of the downstream kinases MAPK1/ERK2 and MAPK3/ERK1 and ultimately to the stimulation of sprouting angiogenesis.

**UniProt:** [Q02763](#)

**Pathways:** [RTK Signaling, Growth Factor Binding](#)

## Application Details

---

**Application Notes:** Optimal working dilution should be determined by the investigator.

**Restrictions:** For Research Use only

## Handling

---

**Format:** Lyophilized

**Reconstitution:** Centrifuge vial prior to opening. Reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL.

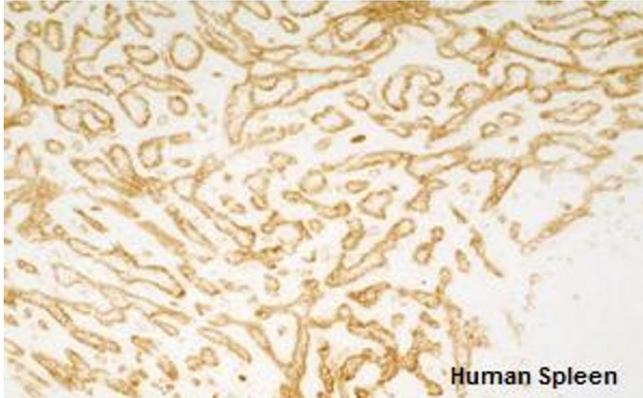
**Concentration:** Lot specific

**Buffer:** Lyophilized.

**Storage:** 4 °C, -20 °C

**Storage Comment:** Short Term Storage: +4°C  
Long Term Storage: -20°C  
Stable for at least 6 months after receipt when stored at -20°C.

**Expiry Date:** 6 months



### Immunohistochemistry

**Image 1.** Immunohistochemistry detection of endogenous TIE-2 in cryo sections of human spleen using anti-TIE-2 (human), mAb (tek2) .