

# QED Bioscience Inc.

ADVANCED ANTIBODY TECHNOLOGIES

## Anti-ADAM10/KUZ/MADM Antibody

### ORDERING INFORMATION

**Catalog No.:** 2051

**Size:** 100 ug IgG in PBS, pH 7.4, purified by immunoaffinity chroma-tography.

### BACKGROUND

Tumor necrosis factor  $\alpha$  (TNF $\alpha$ ) is a proinflammatory cytokine and contributes to a variety of inflammatory reactions and to programmed cell death. Notch receptor and its ligand participate in cell fate decisions during vertebrate development and are associated with several human disorders, including T-cell lymphoma. TNF $\alpha$ , Notch and its ligand delta are all membrane-bound molecules which are cleaved by proteases to release mature proteins or functional receptors. ADAM10, a metalloprotease-disintegrin in the famioly of mammalian ADAM (for a disintegrin and metalloprotease) was recently found to cleave TNF $\alpha$ , Notch and its ligand delta. The genes encoding human, mouse, and bovine ADAM10 have been cloned and designated ADAM10, Kuzbanian (KUZ), and MADM, respectively. These genes are expressed in a variety of human and bovine tissues.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*

### SPECIFICATION SUMMARY

**Antigen:** Peptide corresponding to aa 732-748 of human ADAM10. This sequence is identical to those of bovine and rat and differs from mouse by one amino acid

**Host Species:** Rabbit

**Stabilizers:** None

**Preservatives:** 0.02% sodium azide.

### SPECIFICITY

This antibody recognizes human, mouse, and rat ADAM10. A band of 85 kD is detected in immunoblots and may represent precursor. A 60 kD band is detected in some cell lines, including Jurkat and appears to be the processed mature protein.

### APPLICATIONS

*Immunoblotting:* use at 1:500-1:2,000 dilution.

*Positive control:* Whole cell lysate of Jurkat cells.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid multiple freeze-thaw cycles.