

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse DMBT1 in direct ELISAs and Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse DMBT1 Trp215-Gly420 Accession # Q60997
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

DMBT1 (Deleted in malignant brain tumor-1; also MUC1N, Hensin, CRP-Ductin, and gp300/350) is a 230-350 kDa member of the DMBT1 family of molecules. It is expressed by select cell types, including macrophages, intestinal epithelium, and pancreatic acinar cells. DMBT1 is both transmembrane (TM) and secreted, and possesses multiple activities that may be predicated on multimerization. It drives epithelial differentiation, binds Gm⁺ and Gm⁻ bacteria, and associates with cytoskeletal actin. Mouse DMBT1 is a type I TM glycoprotein 2085 amino acids (aa) in length. Its extracellular region contains eight SRCR repeats (aa 31-980, plus 1510-1610), five CUB domains (aa 1023-1490, plus 1633-1742), and a ZP segment (aa 1751-1999). Multiple splice variants exist. There are deletions of aa 584-733, 397-534, 593-731 and, 2032-2085 (within the TM segment), plus an insertion of 11 aa after Asp29. Over aa 215-420, mouse DMBT1 shares 75% aa identity with human DMBT1.

PRODUCT SPECIFIC NOTICES

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