# Data Sheet (Cat.No.TMAB-07839)

TargetMol

## Anti-ITM2A Polyclonal Antibody

### Product Details

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| Ig Type: | IgG |
| Reactivity: | Human (predicted:Mouse,Rat,Pig,Rabbit) |
| Molecular Weight: | Theoretical: 30 kDa. Actual: 35 kDa. |
| Purification: | Protein A purified |

### Applications

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| Verified Activity: | 1. Blank control (blue): 293T Cells (fixed with 2% paraformaldehyde (10 min)). Primary Antibody: Rabbit Anti-ITM2A/AF488 Conjugated antibody (TMAB-07839-AF488), Dilution: 1 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/AF488 (orange), used under the same conditions.<br>2. Sample: 293T (Human) Cell Lysate at 30 µg<br>Primary: Anti-ITM2A (TMAB-07839) at 1/1000 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 30 kD<br>Observed band size: 35 kD<br>3. Sample: K562 Cell (Human) Lysate at 40 µg<br>Primary: Anti-ITM2A (TMAB-07839) at 1/300 dilution<br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution<br>Predicted band size: 30 kD<br>Observed band size: 30 kD |
| Application: | WB,FCM |
| Recommended | WB: 1:500-2000; FCM: 1µg/Test |

### Properties

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| 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. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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| Immunogen: | KLH conjugated synthetic peptide: human ITM2A |
| Antigen Species: | Human |
| Gene ID: | 9452 |
| Uniprot ID: | O43736 |

### Research Background

The type II integral membrane (ITM2) protein family consists of three members ITM2A (also designated E25), ITM2B and ITM2C. ITM2A expression is high in osteogenic and lymphoid tissues, while both ITM2B and ITM2C are expressed in brain. Mutations in the ITM2B gene can lead to familial British dementia (fbd), and autosomal dominant disease characterized by progressive dementia, spasticity, and cerebellar ataxia, or familial Danish dementia (fdd), an autosomal dominant disorder characterized by cataracts, deafness, progressive ataxia, and dementia. The ITM2A

263-amino acid protein contains an N-terminal cytosolic domain, an uncleaved signal anchor sequence, and a tyrosine-rich C-terminal domain. Human ITM2A shares 91% homology with mouse ITM2A.

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

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