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Datasheet for ABIN680730

anti-TAP1 antibody (AA 501-600) (Biotin)

Overview

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| Quantity: | 100 µL |
| Target: | TAP1 |
| Binding Specificity: | AA 501-600 |
| Reactivity: | Human, Pig |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TAP1 antibody is conjugated to Biotin |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

Product Details

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| Immunogen: | KLH conjugated synthetic peptide derived from human Tap1/ABCB2 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Pig |
| Predicted Reactivity: | Mouse,Rat,Cow,Rabbit |
| Purification: | Purified by Protein A. |

Target Details

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| Target: | TAP1 |
| Alternative Name: | Tap1 (TAP1 Products) |

Target Details

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| Background: | <p>Synonyms: APT1, PSF1, ABCB2, PSF-1, RING4, TAP1N, D6S114E, TAP1*12N, Antigen peptide transporter 1, ATP-binding cassette sub-family B member 2, Peptide supply factor 1, Peptide transporter PSF1, Peptide transporter TAP1, Peptide transporter involved in antigen processing 1, Really interesting new gene 4 protein, TAP1, Y3</p> <p>Background: Involved in the transport of antigens from the cytoplasm to the endoplasmic reticulum for association with MHC class I molecules. Also acts as a molecular scaffold for the final stage of MHC class I folding, namely the binding of peptide. Nascent MHC class I molecules associate with TAP via tapasin. Inhibited by the covalent attachment of herpes simplex virus ICP47 protein, which blocks the peptide-binding site of TAP. Inhibited by human cytomegalovirus US6 glycoprotein, which binds to the luminal side of the TAP complex and inhibits peptide translocation by specifically blocking ATP-binding to TAP1 and prevents the conformational rearrangement of TAP induced by peptide binding. Inhibited by human adenovirus E3-19K glycoprotein, which binds the TAP complex and acts as a tapasin inhibitor, preventing MHC class I/TAP association. Expression of TAP1 is down-regulated by human Epstein-Barr virus vIL-1 protein, thereby affecting the transport of peptides into the endoplasmic reticulum and subsequent peptide loading by MHC class I molecules.</p> |
| Gene ID: | 6890 |
| UniProt: | Q03518 |
| Pathways: | Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process |

Application Details

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| Application Notes: | WB 1:300-5000 IHC-P 1:200-400 IHC-F 1:100-500 |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |

Handling

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| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C for 12 months. |
| Expiry Date: | 12 months |