

## Product datasheet for **TA322563**

### MRP5 (ABCC5) Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 1000-5000 WB positive control: Mouse heart tissue IHC: 50-200 Positive control: Human ovarian cancer Predicted cell location: Cytoplasm, Cell membrane
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to a region derived from 2-14 amino acids of Human ATP-binding cassette, sub-family C?
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	161 kDa
Gene Name:	ATP binding cassette subfamily C member 5
Database Link:	<a href="#">NP_005679</a> <a href="#">Entrez Gene 27416 Mouse</a> <a href="#">Entrez Gene 116721 Rat</a> <a href="#">Entrez Gene 10057 Human</a> <a href="#">O15440</a>



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**Background:**

The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1; MDR/TAP; MRP; ALD; OABP; GCN20; White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions in the cellular export of its substrate; cyclic nucleotides. This export contributes to the degradation of phosphodiesterases and possibly an elimination pathway for cyclic nucleotides. Studies show that this protein provides resistance to thiopurine anticancer drugs; 6-mercaptopurine and thioguanine; and the anti-HIV drug 9-(2-phosphonylmethoxyethyl)adenine. This protein may be involved in resistance to thiopurines in acute lymphoblastic leukemia and antiretroviral nucleoside analogs in HIV-infected patients. Alternative splicing of this gene has been detected; however, the complete sequence and translation initiation site is unclear.?

**Synonyms:**

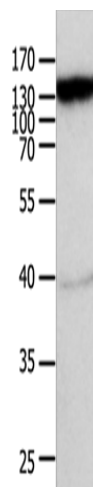
ABC33; EST277145; MOAT-C; MOATC; MRP5; pABC11; SMRP

**Protein Families:**

Druggable Genome, Transmembrane

**Protein Pathways:**

ABC transporters

**Product images:**

Gel: 10%SDS-PAGE

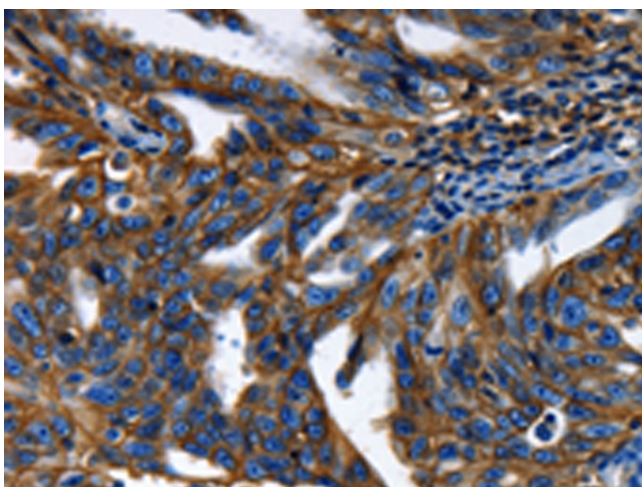
Lysate: 40 µg

Lane: Mouse heart tissue

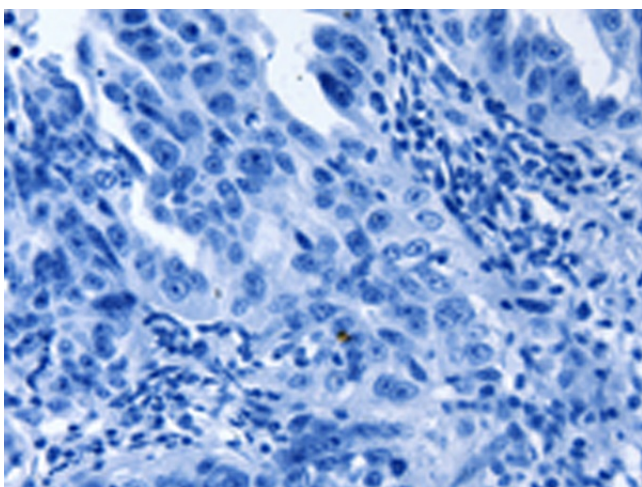
Primary antibody: TA322563 (ABCC5 Antibody) at dilution 1/950

Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution

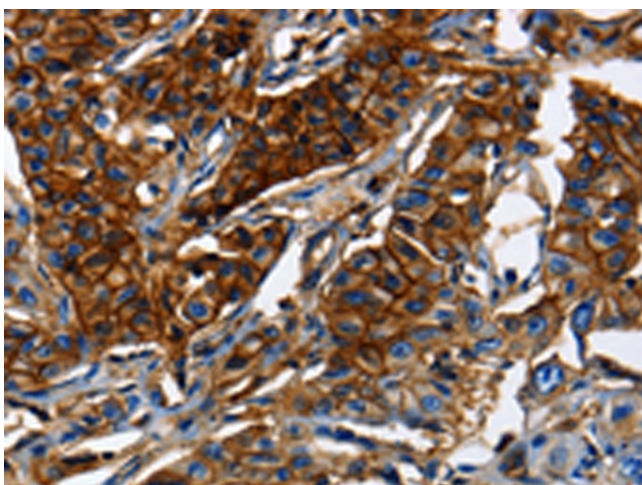
Exposure time: 10 minutes



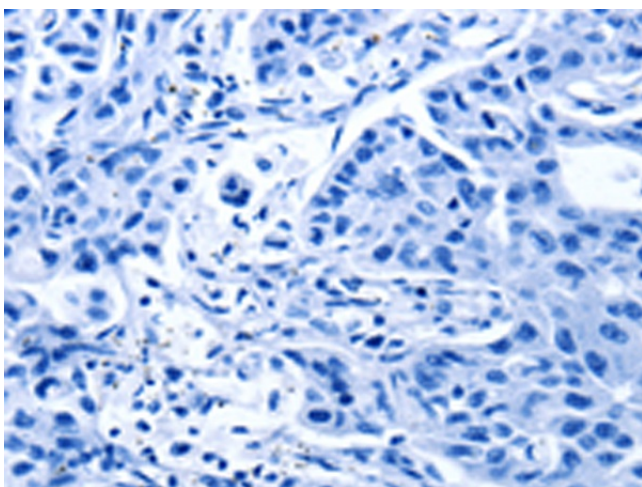
Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA322563 (ABCC5 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using TA322563 (ABCC5 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA322563 (ABCC5 Antibody) at dilution 1/50 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA322563 (ABCC5 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification:  $\times 200$ )