

# Product datasheet



## sHLA– DQB1\*06:02 DQA1\*01:03

DQB1\*0602, DQB10602, DQB1\*06, DQB06, DQ6  
DQA1\*0103, DQA10103, DQA1\*01, DQA01

|                         |                   |
|-------------------------|-------------------|
| <b>Serological Name</b> | DQ6               |
| <b>Peptide Load</b>     | Endogenous        |
| <b>Modification</b>     | Unmodified        |
| <b>Conjugation</b>      | Unconjugated      |
| <b>SKU</b>              | DQB10602/DQA10103 |

### Product Description

|                                            |                                                                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Allele Name</b>                         | DQA1*01:03<br>DQB1*06:02                                                                                                                    |
| <b>HLA Class</b>                           | HLA Class II                                                                                                                                |
| <b>HLA Gene Locus</b>                      | HLA-DQ                                                                                                                                      |
| <b>Alternative Allele Name A Chain</b>     | DQA1*0103, DQA10103, DQA1*01, DQA01                                                                                                         |
| <b>Alternative Allele Name B Chain</b>     | DQB1*0602, DQB10602, DQB1*06, DQB06, DQ6                                                                                                    |
| <b>Description</b>                         | Recombinant, truncated Class II soluble Human Leukocyte Antigen (sHLA), naturally folded and glycosylated, loaded with endogenous peptides. |
| <b>Serological Name</b>                    | DQ6                                                                                                                                         |
| <b>Serological Split</b>                   | DQ1                                                                                                                                         |
| <b>Allele Frequency [World Population]</b> |                                                                                                                                             |
| <b>A chain</b>                             | 8.2%                                                                                                                                        |
| <b>B chain</b>                             | 7.8%                                                                                                                                        |

### Associated products

[DQB10602/DQA10103bio](#)  
[DQB10602/DQA10103pe](#)

## Product Specification

|                             |                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------|
| Product name                | HLA-DQB1*06:02/DQA1*01:03                                                                          |
| HLA Species                 | Human                                                                                              |
| Host Cell Line Species      | Mouse                                                                                              |
| Clone Designation           |                                                                                                    |
| Tail Specification          | ZP                                                                                                 |
| Peptide Load                | Endogenous                                                                                         |
| Modification                | Unmodified                                                                                         |
| Conjugation                 | Unconjugated                                                                                       |
| Complexity                  | Monomer                                                                                            |
| Protein Format              | Recombinant, truncated, zipper-stabilized, soluble, non-modified, non-labeled, endogenously loaded |
| Storage Temperature         | 4°C (This product should be stored undiluted)                                                      |
| Form                        | Liquid                                                                                             |
| Concentration               | 1000.0 µg/ml                                                                                       |
| Formulation                 | PBS/0.02% Sodium Azide                                                                             |
| pH                          | 7.4                                                                                                |
| Purification Method         | Affinity Chromatography                                                                            |
| Grade                       | Research Use Only [RUO]                                                                            |
| Authentication Verification | Sequence Based Typing                                                                              |

## Protein Sequences

|                      |                                                                                                                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alpha Chain Sequence | EDIVADHVAS CGVNLYQFYG PSGQFTHEFD GDEQFYVDLE KKETAWRWPE FSKFGGFDPQ<br>GALRNMVAVK HNLNIMIKRY NSTAATNEVP EVTVFSKSPV TLGPNTLIC LVDNIFPPVV<br>NITWLSNGHA VTEGVSETSF LSKSDHSFFK ISYLTFLPSA DEIYDCKVEH WGLDQPLLKH<br>WEPEIPAPMS EVDGGGGGAQ LEKELQALEK ENAQLEWELQ ALEKELAQ           |
| Beta Chain Sequence  | RDSPEDFVFQ FKGMCYFTNG TERVRLVTRY IYNREEYARF DSDVGVYRAV TPQGRPDAEY<br>WNSQKEVLEG TRAEOLDTVCR HNYEVAFRGI LQRRVEPTVT ISPSRTEALN HHNLLVCSVT<br>DFYPGQIKVR WFRNDQEETA GVVSTPLIRN GDWTFQILVM LEMTPQRGDV YTCHVEHPSL<br>QSPITVEWRA QSESAQSKVD GGGGGAQLKK KLQALKKKNA QLKWKLQALK KKLAQ |

## Related Products

[DQB10603/DQA10103](#)  
[DQB10601/DQA10103](#)  
[DQB10301/DQA10201](#)  
[DQB10602/DQA10102](#)

## Applications

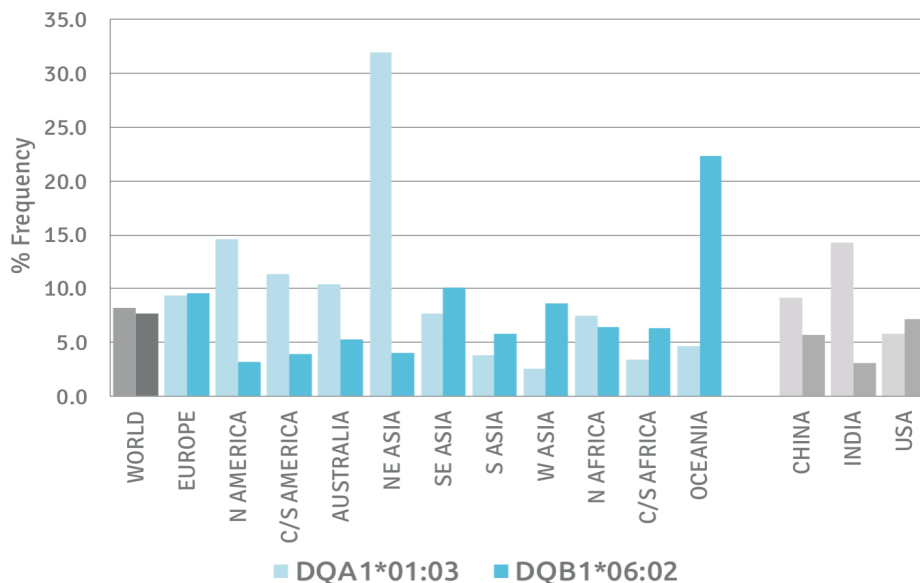
HLA Sandwich ELISAs  
 HLA Direct ELISAs  
 HLA-Sera Antibody Assays  
 HLA Controls in ELISA Assays  
 HLA Assay Standards  
 HLA Blocking Assays  
 HLA Neutralizing Assays  
 HLA Competition Assays  
 HLA Bead Assays  
 HLA Immunization Procedures

## Recommended Antibodies

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## Allele Frequency

### Worldwide Allele Frequency



Please note:

ALL PRODUCTS ARE FOR RESEARCH USE ONLY. NOT FOR COMMERCIAL USE IN DIAGNOSTIC PROCEDURES.  
 For more information, please visit our Policies section on our website. For licensing inquiries, please contact

[licensing@hlaprotein.com](mailto:licensing@hlaprotein.com)

 HLA Protein  
PURE PROTEIN LLC

## Eplet Assignments

DQB1\*06:02

| Eplet | Polymorphic Residues | Antibody Reactivity |
|-------|----------------------|---------------------|
| 3S    | 3S                   |                     |
| 9F    | 9F                   |                     |
| 13GM  | 13G14M               |                     |
| 23R   | 23R                  |                     |
| 26L   | 26L                  |                     |
| 37YA  | 37Y38A               |                     |
| 45G   | 45G                  |                     |
| 45GV  | 45G46V               | Yes                 |
| 46VY  | 46V 52P 28T          | Yes                 |
| 52PQ  | 53Q 89G 90I          | Yes                 |
| 55R   | 55R                  | Yes                 |
| 55RPD | 55R56P57D            |                     |
| 56P   | 56P                  |                     |
| 56PD  | 56P57D               |                     |
| 66EV  | 66E67V               |                     |
| 67VG  | 66E67V70G            |                     |
| 67VT  | 67V71T               |                     |
| 70GT  | 67V70G71T            |                     |
| 74EL  | 74E75L77T            |                     |
| 77T   | 77T                  | Yes                 |
| 86A   | 86A                  |                     |
| 87F   | 87F                  | Yes                 |
| 125G  | 125G                 |                     |
| 130R  | 130R                 |                     |
| 135D  | 135D                 |                     |
| 167R  | 167R                 |                     |
| 182S  | 182S                 | Yes                 |
| 185T  | 185T                 |                     |
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## Eplet Assignments

DQA1\*01:03

| Eplet | Polymorphic Residues                | Antibody Reactivity |
|-------|-------------------------------------|---------------------|
| 2D    | 2D 199A                             | Yes                 |
| 25FT  | 25F26T                              |                     |
| 40E   | 40E                                 | Yes                 |
| 52SK  | 52S 53K 11C 18F 45A 64R 66M 69A 80Y | Yes                 |
| 75I   | 75I 161D 163I                       |                     |
| 129H  | 129H                                |                     |
| 130A  | 130A                                |                     |
| 160A  | 160A                                |                     |
| 160AD | 160A161D                            |                     |
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