

# Product datasheet



## sHLA– DRB5\*01:02bio DRA\*01:01bio

DRB5\*0102, DRB50102, DRB5\*01, DRB01, DR51  
DRA\*0101, DRA0101, DRA\*01, DRA01

|                         |             |
|-------------------------|-------------|
| <b>Serological Name</b> | DR51        |
| <b>Peptide Load</b>     | Endogenous  |
| <b>Modification</b>     | Unmodified  |
| <b>Conjugation</b>      | Biotin      |
| <b>SKU</b>              | DRB50102bio |

### Product Description

|                                            |                                                                                                                                             |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Allele Name</b>                         | DRA*01:01<br>DRB5*01:02                                                                                                                     |
| <b>HLA Class</b>                           | HLA Class II                                                                                                                                |
| <b>HLA Gene Locus</b>                      | HLA-DR                                                                                                                                      |
| <b>Alternative Allele Name A Chain</b>     | DRA*0101, DRA0101, DRA*01, DRA01                                                                                                            |
| <b>Alternative Allele Name B Chain</b>     | DRB5*0102, DRB50102, DRB5*01, DRB01, DR51                                                                                                   |
| <b>Description</b>                         | Recombinant, truncated Class II soluble Human Leukocyte Antigen (sHLA), naturally folded and glycosylated, loaded with endogenous peptides. |
| <b>Serological Name</b>                    | DR51                                                                                                                                        |
| <b>Serological Split</b>                   | –                                                                                                                                           |
| <b>Allele Frequency [World Population]</b> |                                                                                                                                             |
| <b>A chain</b>                             | –                                                                                                                                           |
| <b>B chain</b>                             | –                                                                                                                                           |

### Associated products

[DRB50102](#)  
[DRB50102pe](#)

## Product Specification

|                             |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| Product name                | HLA-DRB5*01:02bio                                                                                   |
| HLA Species                 | Human                                                                                               |
| Host Cell Line Species      | Mouse                                                                                               |
| Clone Designation           | EP073-P4                                                                                            |
| Tail Specification          | ZP                                                                                                  |
| Peptide Load                | Endogenous                                                                                          |
| Modification                | Unmodified                                                                                          |
| Conjugation                 | Biotin                                                                                              |
| Complexity                  | Monomer                                                                                             |
| Protein Format              | Recombinant, truncated, zipper-stabilized, soluble, non-modified, biotinylated, endogenously loaded |
| Storage Temperature         | 4°C (This product should be stored undiluted)                                                       |
| Form                        | Liquid                                                                                              |
| Concentration               | 300.0 µg/µl                                                                                         |
| 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 | IKEEHVIIQA EFYLNPDQSG EFMDFDGDGE IFHVDMAKKE TVWRLEEFGR FASFEAQGAL<br>ANIAVDKANL EIMTKRSNYT PITNVPPEVT VLTNSPVLEL EPNVLICFID KFTPPVNVNT<br>WLRNGKPVTT GVSETVFLPR EDHLFRKFHY LPFLPSTEDV YDCRVEHWGL DEPLLKHWEF<br>DAPSPLPETT EVDGGGGGAQ LEKELQALEK ENAQLEWELQ ALEKELAQ         |
| Beta Chain Sequence  | GDTRPRFLQQ DKYECHFFNG TERVRFLHRG IYNQEENVRF DSDVGEYRAV TELGRPDAEY<br>WNSQKDFLED RRAAVDTYCR HNYGVGESFT VQRRVEPKVT VYPARTQTLQ HHNLLVCSVN<br>GFYPGSIEVR WFRNSQEEKA GVVSTGLIQN GDWTFQTLVM LETVPRSGEV YTCQVEHPSV<br>TSPLTVEWRA QSESAQSKVD GGGGGAQLKK KLQALKKKNA QLKWKLQALK KKLAQ |

## Related Products

[DRB50101bio](#)  
[DRB50202bio](#)  
[DRB1101bio](#)  
[DRB11501bio](#)

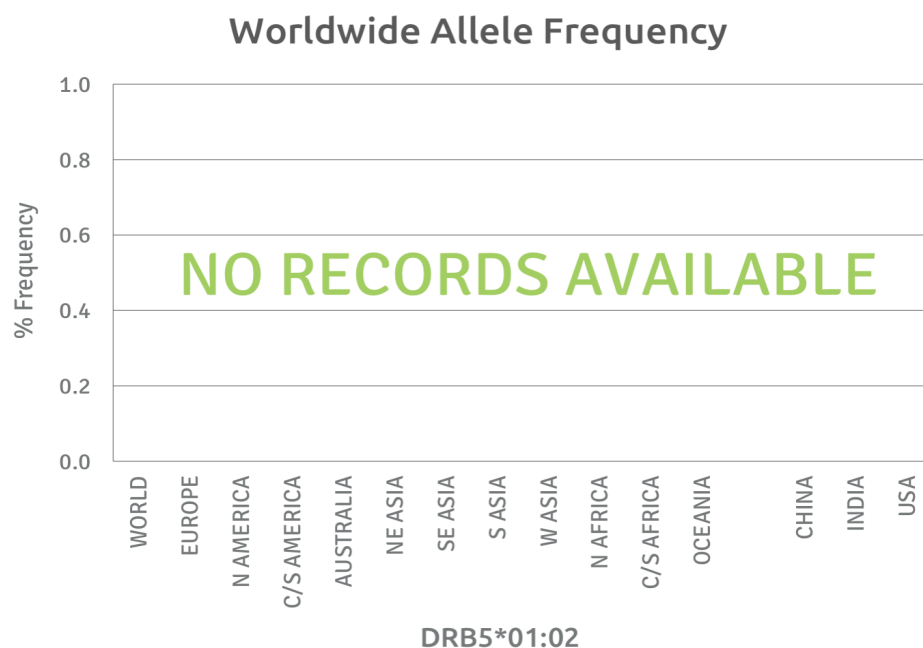
## Applications

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

L243

## 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

DRB5\*01:02

| Eplet  | Polymorphic Residues | Antibody Reactivity |
|--------|----------------------|---------------------|
| 4R     | 4R                   | Yes                 |
| 16H    | 16H                  |                     |
| 25R    | 25R                  | Yes                 |
| 26F    | 26F                  |                     |
| 28H    | 28H                  |                     |
| 30G    | 28H30G31I            |                     |
| 31I    | 31I32Y33N            |                     |
| 32Y    | 32Y                  |                     |
| 32YN   | 32Y33N               |                     |
| 33N    | 33N                  |                     |
| 37N    | 37N38V               |                     |
| 38V    | 38V                  |                     |
| 40F    | 40F41D               |                     |
| 47Y    | 47Y                  |                     |
| 47YR   | 47Y48R               |                     |
| 57D    | 57D60Y               |                     |
| 57DA   | 57D58A60Y            |                     |
| 58A    | 58A                  |                     |
| 58AY   | 58A60Y               |                     |
| 60Y    | 60Y                  |                     |
| 67F    | 67F                  |                     |
| 70D    | 70D                  | Yes                 |
| 70DA   | 70D73A               | Yes                 |
| 70DR   | 70D71R               |                     |
| 70DRA  | 70D71R73A            |                     |
| 71R    | 71R                  |                     |
| 73A    | 73A77T               | Yes                 |
| 74A    | 73A74A77T            |                     |
| 77T    | 77T                  | Yes                 |
| 77TY   | 77T78Y               |                     |
| 78Y    | 78Y                  |                     |
| 85V    | 85V                  |                     |
| 86G    | 85V86G               |                     |
| 96EV   | 96E98K180V           | Yes                 |
| 98K    | 98K                  |                     |
| 98KN   | 98K120N              |                     |
| 104A   | 104A                 | Yes                 |
| 108T   | 108T                 | Yes                 |
| 112H   | 112H                 |                     |
| 120N   | 120N                 |                     |
| 133RS  | 133R135S             |                     |
| 140A   | 140A                 |                     |
| 140AV  | 140A142V             |                     |
| 149Q   | 149Q                 |                     |
| 180V   | 180V                 |                     |
| 180VTP | 180V181T183P         |                     |
| 181T   | 181T                 |                     |
| 189R   | 187E189R             |                     |
|        |                      |                     |
|        |                      |                     |
|        |                      |                     |
|        |                      |                     |
|        |                      |                     |