

Product specifications

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| Name | Anti-h IgA 8203 SPRN-5 |
| Specificity | Antibody recognizes human immunoglobulin A |
| Description | Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components. |
| Product code | 100101 |
| Product buffer solution | 37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.095 % NaN ₃ as a preservative |
| Shelf life and storage | 36 months from manufacturing at 2–8 °C |
| Subclass | IgG ₁ |
| Analyte description | Immunoglobulin A (IgA) is an antibody which plays a critical role in mucosal immunity. IgA has two subclasses (IgA1 and IgA2) and can exist in a dimeric form called secretory IgA (sIgA). In its secretory form, IgA is the main immunoglobulin found in mucous secretions, including tears, saliva, colostrum and secretions from the genito-urinary tract, gastrointestinal tract, prostate and respiratory epithelium. It is also found in small amounts in blood. The secretory component of sIgA protects the immunoglobulin from the being degraded by proteolytic enzymes, thus sIgA can survive in the harsh gastrointestinal tract environment. |

Parameters tested on each lot

| | |
|-----------------------|----------------------------------------------------------|
| Product appearance | Liquid, may turn slightly opaque during storage |
| Product concentration | 5.0 mg/ml (+/- 10 %) |
| Immunoreactivity | 80–120 % compared to the reference sample in an FIA test |
| IEF Profile | 6.6–7.7 |
| Purity | ≥ 95 % |

Kinetic parameters

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|----------------------------|---------------------------------------------------|
| Association rate constant | Not Determined (N/D) |
| Dissociation rate constant | N/D |
| Affinity constant | $K_A = 3 \times 10^9$ 1/M |
| Determination method | Radioimmunoassay (RIA) |
| Determination antigen | IgA, Scripps Laboratories (Cat I2224, Lot 127283) |

Cross-reactivities

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|----------------------------------------------|--------------------------------------------|
| Human IgA (secretory) | 107 % (DAKO, Cat X594, Lot 0692) |
| Human IgA (myeloma) | 135 % (Scripps, Cat I0124, Lot 795283) |
| Human IgA1 (myeloma) | 145 % (Chemicon, Cat AG500, Lot 150BDS) |
| Human IgA2 (myeloma) | 91 % (Chemicon, Cat AG501, Lot 322BDS) |
| Human IgA1 (myeloma) | 104 % (Biodesign, Cat A50165H, Lot 9K3203) |
| Human IgA2 (myeloma) | 200 % (Biodesign, Cat A50160H, Lot 392) |
| Human IgA α-chain | 138 % (Chemicon, Cat AG701, Lot 110386) |
| Human IgG | < 0.3 % (Chemicon, Cat AG711, Lot 203PCB) |
| Human IgG | < 0.3 % (Scripps, Cat I1424, Lot 484183) |
| Human IgM (plasma) | 2.6 % (Scripps, Cat I1124, Lot 794283) |
| Human IgM (Waldenström's macroglobulinaemia) | < 0.3 % (DAKO, Cat X595, Lot 0792J) |

Epitope

N/D

Pair recommendations

N/D

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

Platforms tested

FIA

Antigens tested

N/D

Product stability

| TEMPERATURE, TIME | RESULT |
|-------------------|--------|
| -70 °C, 21 days | OK |
| -20 °C, 21 days | OK |
| +4 °C, 21 days | OK |
| +25 °C, 21 days | OK |
| +35 °C, 21 days | OK |
| +45 °C, 7 days | OK |

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

Miscellaneous

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References

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