**A novel human MrgX2-ELISA kit to diagnose chronic urticaria**

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**Supplemental Tables:**

Table S1 Detection line, quantitative limit, linear range and accuracy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Validationcriterion | LODng/mL | LOQng/mL | Linearity rangeng/mL | Accuracy% Recovery |
| MrgX2 | 3.125 | 6.25 | 3.125-200 | 92.37-108.0% |

Table S2 Inter-Assay and Intra-Assay Precision

|  |  |
| --- | --- |
| Validationcriterion | Precision |
| Inter-day (n = 5) |  | Intra-day (n = 5) |
| 25 ng/mL | 50 ng/mL | 100 ng/mL |  | 25 ng/mL | 50 ng/mL | 100 ng/mL |
| MrgX2 | 11.88% | 10.82% | 8.984% |  | 1.885% | 9.163% | 4.966% |

Table S3 MrgX2 concentrations for groups of healthy individuals and CU individualsa

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Group | n | 25th percentile | Median | 75th percentile |
| Healthy individuals | 75 | 50.11 | 60.00 | 66.80 |
| CU individuals | 75 | 82.42 | 95.62 | 109.43 |

a For each group of individuals or CU studied, the median, 25th percentile, 75th percentile, and interquartile range were determined.

Table S4 Comparisons of MrgX2 concentrations between respective groups of healthy individuals and CU individualsa

|  |  |
| --- | --- |
| Group | *p* |
| CU individuals (n= 75) vs healthy individuals (n = 75) | <0.0001 |
| healthy men (n=31) vs healthy women (n=44) | 0.1039 |
| CU men (n=31) vs CU women (n=44) | 0.7892 |

a Comparisons of MrgX2 concentrations between healthy individuals and CU individuals were performed by using a nonparametric t test.