

CODE No. 5331

For Research Use Only, Not for use in diagnostic procedures.

## Ab-Match Assembly Human MICB Kit

For technical material or related information, please refer to <http://ruo.mbl.co.jp/product/abmatch/abmatch.html>.

### ■ Advantage

By using Ab-Match Assembly Human MICB (MHC class I Chain-related gene B) Kit in combination with the Ab-Match Universal Kit (MBL; code no. 5310), human MICB can be measured quantitatively and specifically. The two kits are sufficient to produce one 96-well microplate. This product is intended for research use only.

### ■ Materials provided 1× 96 wells

Name	Materials	Quantity	Dilution ratio
<b>MICB standard</b>	Recombinant human MICB*	200 μL × 1 vial	1:10 – 1:640
<b>Anti-MICB capture antibody</b>	Mouse anti-MICB monoclonal antibody (IgG) (50% Glycerol/PBS)	60 μL × 1 vial	1:400
<b>Anti-MICB detection antibody</b>	Biotin conjugated mouse anti-MICA/B monoclonal antibody	110 μL × 1 vial	1:101
<b>Streptavidin conj. peroxidase</b>	Strept avidin conjugated peroxidase (SA-HRP)	110 μL × 1 vial	1:101

\* The concentration is printed to the label. To avoid repeated freezing and thawing, prepare aliquots.

Note: Kit components must be brought to room temperature (20-30°C) prior to use.

### ■ Protocol

Coating step	Blocking step	Sample incubation step	Detection antibody incubation step	SA-HRP step	Substrate incubation step	Reading
Add 100 μL diluted capture antibody to each well ↓ Incubate over night at 2-8°C	Wash 2 times ↓ Add 200 μL of Blocking Agent to each well ↓ Incubate 1 hour at room temperature	Dump out the contents of the wells ↓ Add 100 μL of samples or standards to each well ↓ Incubate 1 hour at room temperature	Wash 4 times ↓ Add 100 μL of diluted detection antibody to each well ↓ Incubate 1 hour at room temperature	Wash 4 times ↓ Add 100 μL of diluted SA-HRP to each well ↓ Incubate 30 minutes at room temperature	Wash 4 times ↓ Dump out the contents of the wells ↓ Add 100 μL of Substrate Solution to each well ↓ Incubate 30 minutes at room temperature	Add 100 μL of Stop Solution to each well ↓ Read absorbance at 450 nm

### ■ Storage and Stability

All kit components must be stored at -20 ~ -30°C. All reagents are stable for 12 months after shipment.

### ■ Related products

5310 Ab-Match Universal Kit

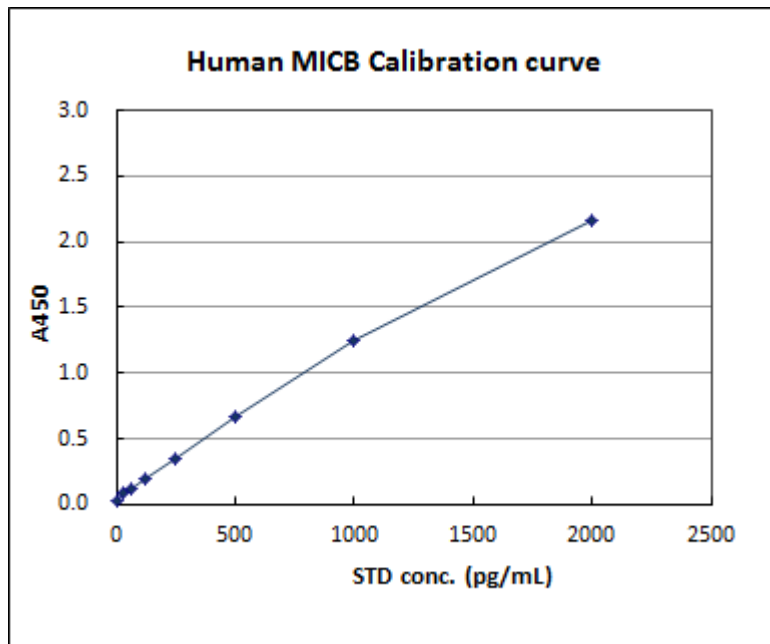
5330 Ab-Match Assembly Human MICA Kit

### ■ References

- 1) Kloss, M., *et al.*, *J Immunol.* **181**, 6711-9 (2008)
- 2) Waldhauer, I., *et al.*, *Cancer Res.* **68**, 6368-76 (2008)
- 3) Spreu, J., *et al.*, *J. Immunol.* **177**, 3143-3149 (2006)
- 4) Armeanu, S., *et al.*, *Cancer Res.* **65**, 6321-6329 (2005)
- 5) Welte, S. A., *et al.*, *Eur. J. Immunol.* **33**, 194-203 (2003)
- 6) Salih, H. R., *et al.*, *Blood* **102**, 1389-1396 (2003)

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■ **Calibration curve**



■ **Reference data**

1. Intra-assay

pg/mL	CV (%)
35.0	2.9
75.7	2.4
277.0	4.6
1487.4	5.1

2. Detection limit

LOB (Limit of Blank)	1.41 pg/mL
LOQ (Limit of Quantification)	13.66 pg/mL

3. Normal range

Normal human serum, 5x diluted (n=28)

Mean = 3 pg/mL

Mean + 3SD = 18 pg/mL

4. Cross reactivity

This kit does not react to recombinant human MICA.

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## Ab-Match Assembly Human MICB Kit

技術資料や、関連情報はホームページからご利用頂けます。 <http://ruo.mbl.co.jp/product/abmatch/abmatch.html>

### ■ 特徴

Ab-Match Assembly Human MICB (MHC class I Chain-related gene B) Kit は、Ab-Match Universal Kit (MBL; code no. 5310) と組み合わせてご使用いただくことで、サンドイッチ ELISA 法にて試料中のヒト MICB を特異的に測定することができます。このセットで 96 穴マイクロプレート 1 枚分の測定が可能です。本製品は研究用試薬です。ヒトの体内に用いたり、診断の目的に使用しないでください。

### ■ キット構成 1 × 96 wells

Name	Materials	Quantity	Dilution ratio
MICB standard	Recombinant human MICB*	200 µL × 1 vial	1:10 – 1:640
Anti-MICB capture antibody	Mouse anti-MICB monoclonal antibody (IgG) (50% Glycerol/PBS)	60 µL × 1 vial	1:400
Anti-MICB detection antibody	Biotin conjugated mouse anti-MICA/B monoclonal antibody	110 µL × 1 vial	1:101
Streptavidin conj. peroxidase	Strept avidin conjugated peroxidase (SA-HRP)	110 µL × 1 vial	1:101

\* 濃度はラベルに記載してあります。凍結融解を避けるため、溶解後は分注してください。

注) キットの構成品は、室温 (20-30°C) に戻してから使用してください。

### ■ 操作法

Coating step	Blocking step	Sample incubation step	Detection antibody incubation step	SA-HRP step	Substrate incubation step	Reading
希釈した capture antibody を 100 µL ずつ各 well に分注 ↓ 2-8°C で一晩静置	2 回洗浄 ↓ Blocking Agent を 200 µL ずつ各 well に分注 ↓ 室温で 1 時間静置	Well の内容物を完全に除去 ↓ 調整した standard 及びサンプルを 100 µL ずつ各 well に分注 ↓ 室温で 1 時間静置	4 回洗浄 ↓ 希釈した detection antibody を 100 µL ずつ各 well に分注 ↓ 室温で 1 時間静置	4 回洗浄 ↓ 希釈した SA-HRP を 100 µL ずつ各 well に分注 ↓ 室温で 30 分間静置	4 回洗浄 ↓ Substrate Solution を 100 µL ずつ各 well に分注 ↓ 室温で 30 分間静置	Stop Solution を 100 µL ずつ各 well に分注 ↓ 450 nm にて吸光度を測定

### ■ 保存と有効

-20 ~ -30°C にて保存してください。有効期間は出荷後 12 ヶ月です。

### ■ 関連製品

5310 Ab-Match Universal Kit

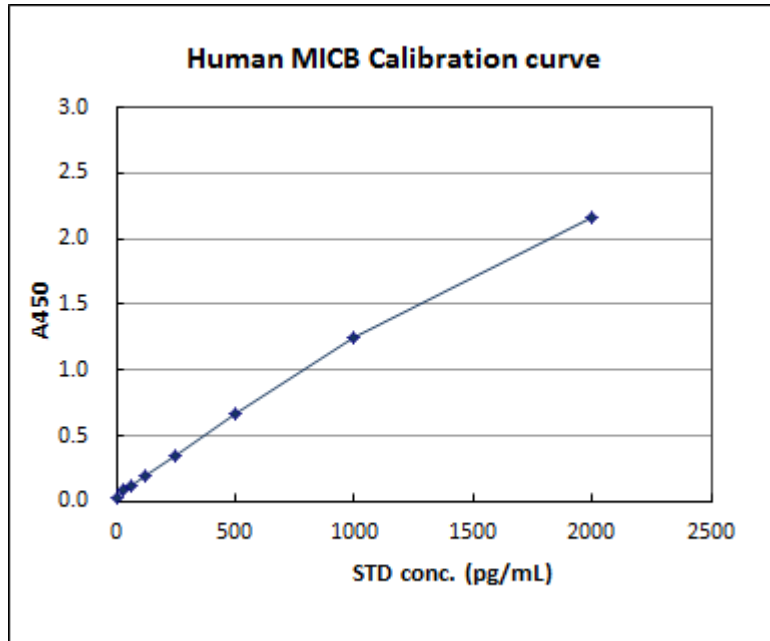
5330 Ab-Match Assembly Human MICA Kit

### ■ 参考文献

- 1) Kloss, M., *et al.*, *J Immunol.* **181**, 6711-9 (2008)
- 2) Waldhauer, I., *et al.*, *Cancer Res.* **68**, 6368-76 (2008)
- 3) Spreu, J., *et al.*, *J. Immunol.* **177**, 3143-3149 (2006)
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- 6) Salih, H. R., *et al.*, *Blood* **102**, 1389-1396 (2003)

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■ 標準曲線例



■ 参考データ

1. 同時再現性

2. 検出感度

pg/mL	CV (%)
35.0	2.9
75.7	2.4
277.0	4.6
1487.4	5.1

LOB (Limit of Blank)

1.41 pg/mL

LOQ (Limit of Quantification)

13.66 pg/mL

3. 基準範囲

正常ヒト血清、5倍希釈を使用 (n=28)

Mean = 3 pg/mL

Mean + 3SD = 18 pg/mL

4. 交叉反応性

このキットはリコンビナントヒト MICA に交叉反応しない事を確認しています。