

CODE No. 5340

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

Ab-Match Assembly Human TERT 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 TERT Kit in combination with the Ab-Match Universal Kit (MBL; code no. 5310), human TERT can be measured quantitatively and specifically. One set of these two kits is sufficient for testing one 96-well microplate. This product is intended for research use only.

■ Materials provided 1× 96 wells

Name	Materials	Quantity	Dilution ratio
Human TERT standard	Recombinant human TERT *	200 µL × 1 vial	1:10 – 1:640
Anti-human TERT capture antibody	Rabbit anti-human TERT polyclonal antibody (affinity purified), (PBS)	260 µL × 1 vial	1:40
Anti-human TERT detection antibody	Biotin conjugated mouse anti-human monoclonal antibody	110 µL × 1 vial	1:101
Streptavidin conj. peroxidase (SA-HRP)	Streptavidin conjugated peroxidase (SA-HRP)	110 µL × 1 vial	1:101
TERT Sample/Detection antibody Diluent	Specialized dilution buffer for HumanTERT Kit. This solution contains BSA, HAMA-Blocker. *2	50 mL × 1 vial	Ready-to-use

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

*2 DO NOT USE Sample Diluent provided in Ab-Match Universal Kit. Use TERT Sample/Detection antibody Diluent for diluting samples, standard and detection antibody because this Diluent is specialized for human TERT kit. After thawing, TERT Sample/Detection antibody Diluent must be stored at 2-8°C.

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

TERT Sample/Detection antibody Diluent must be stored at 2 ~ 8°C after thawing. Other kit components must be stored at -20 ~ -30°C. All reagents are stable for 12 months after shipment.

■ Related product

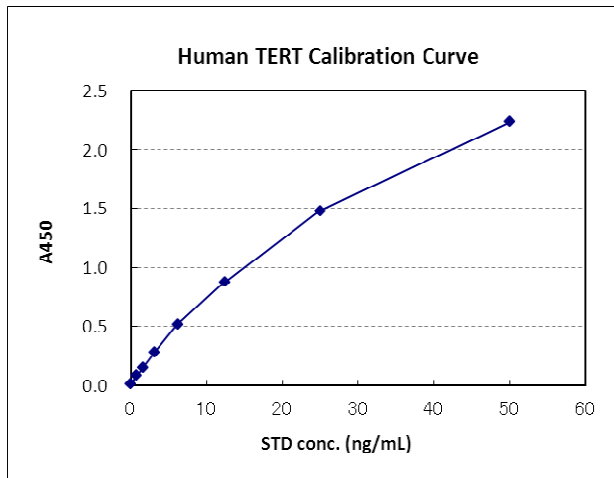
5310 Ab-Match Universal Kit

■ References

- 1) Meyersn, M., *et al.*, *Cell* **90**, 785-795 (1997)
- 2) Harrington, L., *et al.*, *Genes Dev.* **11**, 3109-3115 (1997)

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■ **Calibration curve**



■ **References data**

1. Intra-assay

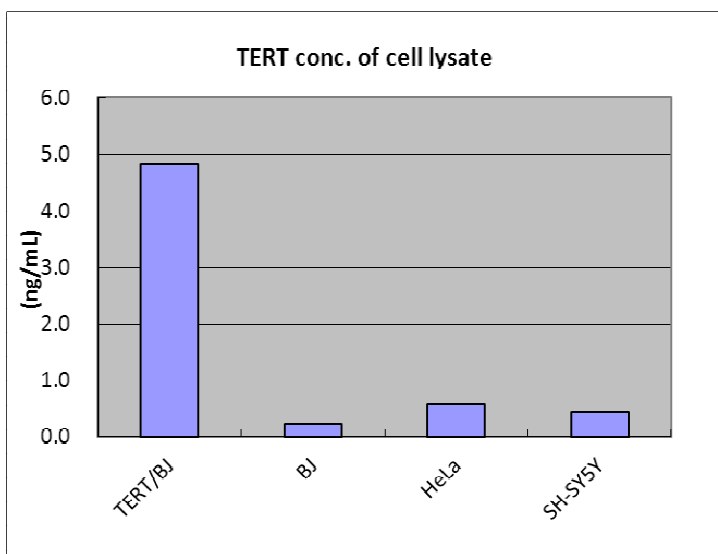
ng/mL	CV (%)
3.01	3.1
6.18	1.8
26.60	5.0
39.96	4.9

2. Detection limit

LOB (Limit of Blank)	0.03 ng/mL
LOQ (Limit of Quantitation)	0.31 ng/mL

(Assayed the each sample 8 times)

3. Measurement examples



(The concentration of each cell lysate is 400 µg/mL)

4. Recovery test

Recombinant human TERT was added to samples at different concentrations.

Serum 1 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	96
6.25	112
25.0	115

Serum 2 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	95
6.25	111
25.0	109

Serum 3 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	96
6.25	102
25.0	108

Serum 4 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	113
6.25	108
25.0	108

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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 TERT Kit は、Ab-Match Universal Kit (MBL; code no. 5310) と組み合わせることで、サンドイッチ ELISA 法にて試料中のヒト TERT 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
Human TERT standard	Recombinant human TERT *	200 μL × 1 vial	1:10 – 1:640
Anti-human TERT capture antibody	Rabbit anti-human TERT polyclonal antibody (affinity purified), (PBS)	260 μL × 1 vial	1:40
Anti-human TERT detection antibody	Biotin conjugated mouse anti-human monoclonal antibody	110 μL × 1 vial	1:101
Streptavidin conj. Peroxidase (SA-HRP)	Streptavidin conjugated peroxidase (SA-HRP)	110 μL × 1 vial	1:101
TERT Sample/Detection antibody Diluent	Specialized dilution buffer for HumanTERT Kit. This solution contains BSA, HAMA-Blocker. *2	50 mL × 1 vial	Ready-to-use

* 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。

*2 サンプル、及び、detection antibodyの希釈には、本キットのTERT Sample/Detection antibody Diluentを使用してください。Ab-Match Universal KitのSample Diluentは使用しないでください。また、TERT Sample/Detection antibody Diluentは融解後、2-8°Cにて保存してください。

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

TERT Sample/Detection antibody Diluent は融解後、2~8°C にて保存してください。その他の構成品は-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

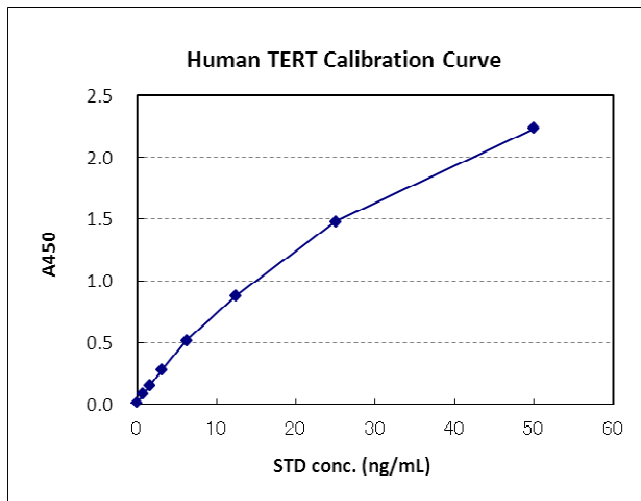
5310 Ab-Match Universal Kit

■ 参考文献

- 1) Meyersn, M., et al., *Cell* **90**, 785-795 (1997)
- 2) Harrington, L., et al., *Genes Dev.* **11**, 3109-3115 (1997)

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■ 標準曲線例



■ 参考データ

1. 同時再現性

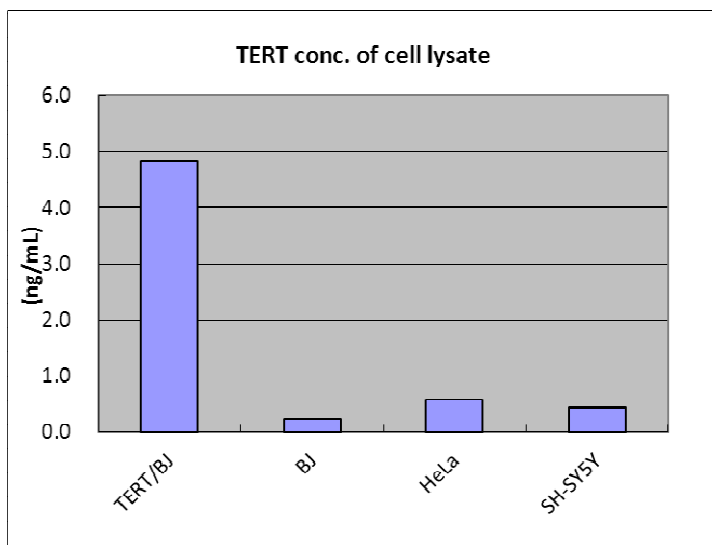
ng/mL	CV (%)
3.01	3.1
6.18	1.8
26.60	5.0
39.96	4.9

2. 検出感度

LOB (Limit of Blank)	0.03 ng/mL
LOQ (Limit of Quantitation)	0.31 ng/mL

(4例のサンプルで各8回アッセイを行いました)

3. 測定例



(細胞抽出液の濃度はそれぞれ 400 µg/mL でアッセイを行いました)

4. 添加回収試験

血清 4 例を用いて添加回収試験を行い、下表の結果を得ました。

Serum 1 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	96
6.25	112
25.0	115

Serum 2 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	95
6.25	111
25.0	109

Serum 3 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	96
6.25	102
25.0	108

Serum 4 (added to 5x diluted serum)

Added Human TERT (ng/mL)	Recovery (%)
0	-
1.56	113
6.25	108
25.0	108