

### Human DMD Antibody Pair - BSA and Azide free ab253533

リコンビナント **RabMAb**

画像数 2

#### 製品の概要

|         |   |
|---------|---|
| 製品名     | Human DMD Antibody Pair - BSA and Azide free  |
| アッセイタイプ | ELISA set   |
| 検出範囲    | 312 pg/ml - 20000 pg/ml   |
| 種交差性    | 交差種: Human  |
| 製品の概要   | Human DMD Antibody Pair is a matched pair of unconjugated <b>recombinant rabbit monoclonal</b> capture and detection antibodies used to quantify Human DMD in sandwich ELISAs and many other pair-based applications.   |
| 特記事項    | <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>The pair can be used in variety of assays and platforms including but not limited to:</p> <p>Sandwich ELISA<br/> FRET/TR-FRET/HTRF<br/> Meso Scale Discovery<sup>®</sup> (MSD<sup>®</sup>)<br/> Bead-based assays<br/> AlphaLISA<sup>®</sup>/AlphaScreen<sup>®</sup><br/> DELFI<sup>®</sup> immunoassays<br/> Simoa<sup>®</sup> and Single Molecule Counting (SMC<sup>™</sup>) immunoassays<br/> Multiplex</p> <p>Our antibody pairs are supplied in a <b>carrier-free format</b> that is conjugation-ready.<br/> Buffer free of BSA, sodium azide, and glycerol for higher conjugation efficiency.<br/> Concentration of ~1 mg/ml as measured by the protein A280 method.<br/> Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>We can label antibodies for you: get in touch today to discuss how we can help accelerate your assay development with <b>custom conjugation services</b>.</p> <p>Pairs are screened in biological samples, including plasma and serum, to ensure specificity in complex samples.</p> <p><b>Please note:</b></p> <p>The recommended antibody orientation is based on internal optimization in sandwich ELISA.</p> |

Antibody orientation is assay dependent and needs to be optimized for each assay type.

The range provided for this antibody pair is based on initial sandwich ELISA validation data using recombinant protein. Performance and range of the antibody pair will depend on the specific characteristics of your assay, including standard protein selection.

We guarantee the product works in sandwich ELISA, but we do not guarantee the sensitivity or dynamic range of the antibodies in other assays.

**Antibody properties:**

**Capture antibody:** recombinant rabbit monoclonal (unconjugated) – 100 µg

**Detector antibody:** recombinant rabbit monoclonal (unconjugated) - 100 µg

**Concentration:** ~1 mg/ml

**Storage buffer:** 100% PBS

**Form:** Liquid

**Isotype:** IgG

Recombinant monoclonal antibodies offer several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

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**アプリケーション**

**適用あり:** Sandwich ELISA

**試験プラットフォーム**

Reagents

**製品の特性**

**保存方法**

Store at +4°C. Please refer to protocols.

**キャリア・フリー**

はい

| 内容   | 10 x 96 tests |
|--|---------------|
| Human DMD Capture Antibody (unconjugated)  | 1 x 100µg     |
| Human DMD Detector Antibody (unconjugated) | 1 x 100µg     |

**機能**

Anchors the extracellular matrix to the cytoskeleton via F-actin. Ligand for dystroglycan. Component of the dystrophin-associated glycoprotein complex which accumulates at the neuromuscular junction (NMJ) and at a variety of synapses in the peripheral and central nervous systems and has a structural function in stabilizing the sarcolemma. Also implicated in signaling events and synaptic transmission.

**組織特異性**

Expressed in muscle fibers accumulating in the costameres of myoplasm at the sarcolemma.

Expressed in brain, muscle, kidney, lung and testis. Isoform 5 is expressed in heart, brain, liver, testis and hepatoma cells. Most tissues contain transcripts of multiple isoforms, however only isoform 5 is detected in heart and liver.

#### 関連疾患

Defects in DMD are the cause of Duchenne muscular dystrophy (DMD) [MIM:310200]. DMD is the most common form of muscular dystrophy; a sex-linked recessive disorder. It typically presents in boys aged 3 to 7 year as proximal muscle weakness causing waddling gait, toe-walking, lordosis, frequent falls, and difficulty in standing up and climbing up stairs. The pelvic girdle is affected first, then the shoulder girdle. Progression is steady and most patients are confined to a wheelchair by age of 10 or 12. Flexion contractures and scoliosis ultimately occur. About 50% of patients have a lower IQ than their genetic expectations would suggest. There is no treatment.

Defects in DMD are the cause of Becker muscular dystrophy (BMD) [MIM:300376]. BMD resembles DMD in hereditary and clinical features but is later in onset and more benign.

Defects in DMD are a cause of cardiomyopathy dilated X-linked type 3B (CMD3B) [MIM:302045]; also known as X-linked dilated cardiomyopathy (XLCM). Dilated cardiomyopathy is a disorder characterized by ventricular dilation and impaired systolic function, resulting in congestive heart failure and arrhythmia. Patients are at risk of premature death.

#### 配列類似性

Contains 2 CH (calponin-homology) domains.

Contains 22 spectrin repeats.

Contains 1 WW domain.

Contains 1 ZZ-type zinc finger.

#### 細胞内局在

Cell membrane > sarcolemma. Cytoplasm > cytoskeleton.

#### アプリケーション

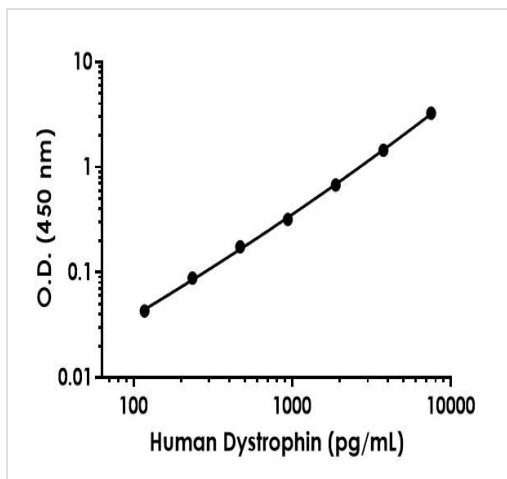
##### The Abpromise guarantee

**Abpromise保証は、次のテスト済みアプリケーションにおけるab253533の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション       | Abreviews | 特記事項                                     |
|----------------|-----------|--|
| Sandwich ELISA |           | Use at an assay dependent concentration. |

#### 画像



Example of Dystrophin standard curve. Background-subtracted data values (mean  $\pm$  SD) are graphed.

Sandwich ELISA - Human DMD Antibody Pair - BSA and Azide free (ab253533)



To learn more about the advantages of recombinant antibodies see [here](#).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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