

## Product datasheet

### Anti-Dux4 antibody [E5-5] ab124699

Recombinant RabMAb

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#### Overview

<b>Product name</b>	Anti-Dux4 antibody [E5-5]
<b>Description</b>	Rabbit monoclonal [E5-5] to Dux4
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB <b>Unsuitable for:</b> Flow Cyt or ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human testis tissue lysates, HT-1080, PC-3, Saos-2, HeLa, 293T and A549 whole cell lysates.
<b>General notes</b>	For details on the development of this clone, please refer to <a href="#">Geng et al. Hybridoma (Larchmt). 2011 Apr; 30(2): 125–130.</a>  This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> .  Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb® patents</a> .

#### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal

**Clone number** E5-5  
**Isotype** IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab124699 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
<b>WB</b>		1/1000 - 1/10000. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).

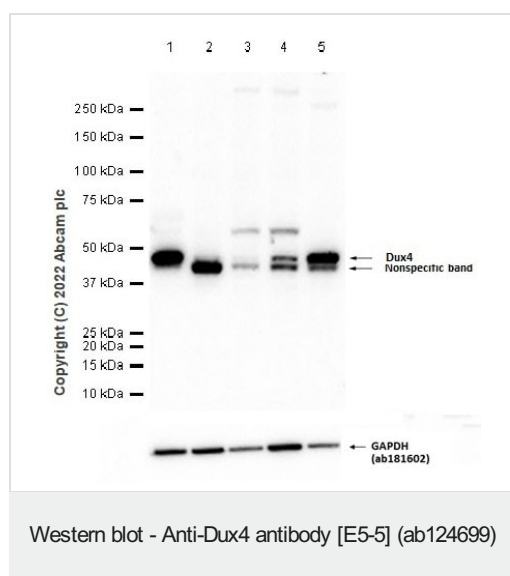
**Application notes** Is unsuitable for Flow Cyt or ICC/IF.

## Target

**Relevance** DUX4 is a homeodomain protein with a similar protein sequence to Pax3 and Pax7. Defects in DUX4 may be the cause of facioscapulohumeral muscular dystrophy (FSHD). FSHD is characterized by weakness of the muscles of the face, upper-arm and shoulder girdle. Severity is highly variable. Weakness is slowly progressive and about 20% of affected individuals eventually require a wheelchair. Approximately 70-90% of individuals have inherited the disease-causing deletion from a parent, and approximately 10-30% of affected individuals have FSHD as the result of a de novo deletion. Offsprings of an affected individual have a 50% chance of inheriting the deletion.

**Cellular localization** Nuclear

## Images



**All lanes** : Anti-Dux4 antibody [E5-5] (ab124699) at 1/1000 dilution

**Lane 1** : Human testis tissue lysate

**Lane 2** : HFF-1 (Human skin fibroblast) whole cell lysate

**Lane 3** : 293T (Human embryonic kidney epithelial cell) whole cell lysate

**Lane 4** : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 5** : A549 (Human lung carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

## Secondary

**All lanes** : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa

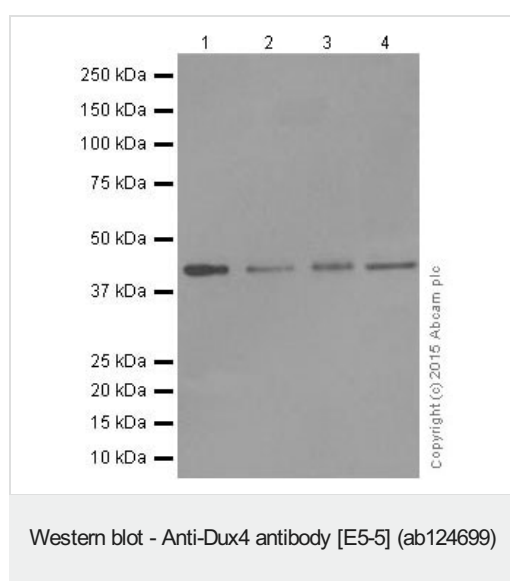
**Exposure time:** 60 seconds

**Blocking buffer and concentration :** 5% NFDM/TBST

**Diluting buffer and concentration :** 5% NFDM /TBST

The expression profile observed in HFF-1 is consistent with the literature (PMID: 30420784).

**Negative control :** HFF-1 (PMID: 30420784)



**All lanes :** Anti-Dux4 antibody [E5-5] (ab124699) at 1/1000 dilution (purified)

**Lane 1 :** HT1080 (human fibrosarcoma cell line) whole cell lysate

**Lane 2 :** PC-3 (human prostate adenocarcinoma cell line) whole cell lysate

**Lane 3 :** Saos-2 (human osteosarcoma cell line) whole cell lysate

**Lane 4 :** HeLa (human epithelial cell line from cervix adenocarcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

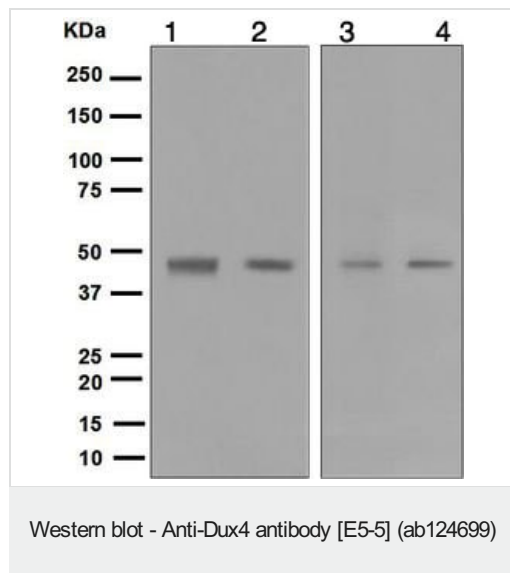
### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

**Predicted band size:** 45 kDa

**Observed band size:** 45 kDa

Blocking and dilution buffer: 5% NFDM/TBST.



**All lanes :** Anti-Dux4 antibody [E5-5] (ab124699) at 1/1000 dilution (unpurified)

**Lane 1 :** Human testis lysate

**Lane 2 :** HT1080 (human fibrosarcoma cell line) cell lysate

**Lane 3 :** PC-3 (human prostate adenocarcinoma cell line) cell lysate

**Lane 4 :** HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

**All lanes :** HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

**Predicted band size:** 45 kDa

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-Dux4 antibody [E5-5] (ab124699)

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

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