

Anti-Dux4 antibody [E5-5] - BSA and Azide free ab216893

Recombinant RabMAb

4 Images

Overview

Product name	Anti-Dux4 antibody [E5-5] - BSA and Azide free
Description	Rabbit monoclonal [E5-5] to Dux4 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt or ICC/IF
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human testis tissue lysates, HT-1080, PC-3, Saos-2, HeLa, 293T and A549 whole cell lysates.
General notes	<p>ab216893 is the carrier-free version of ab124699.</p> <p>For details on the development of this clone, please refer to Geng et al. Hybridoma (Larchmt). 2011 Apr; 30(2): 125–130.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	E5-5
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab216893 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

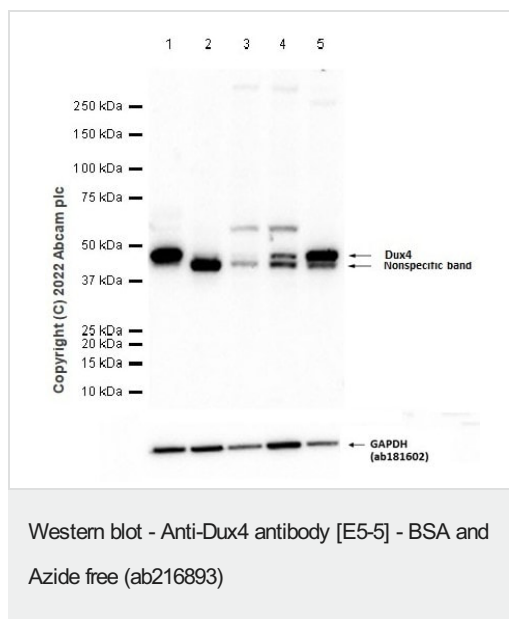
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 45 kDa (predicted molecular weight: 45 kDa).

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

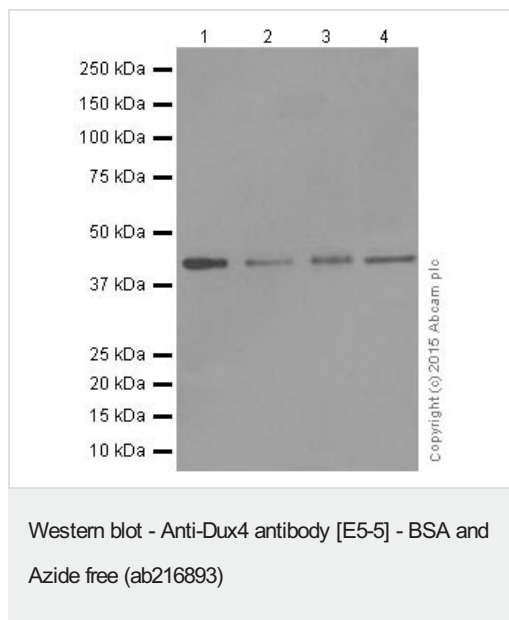
Blocking buffer and concentration : 5% NFDM/TBST

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)

This data was developed using [ab124699](#), the same antibody clone in a different buffer formulation.



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

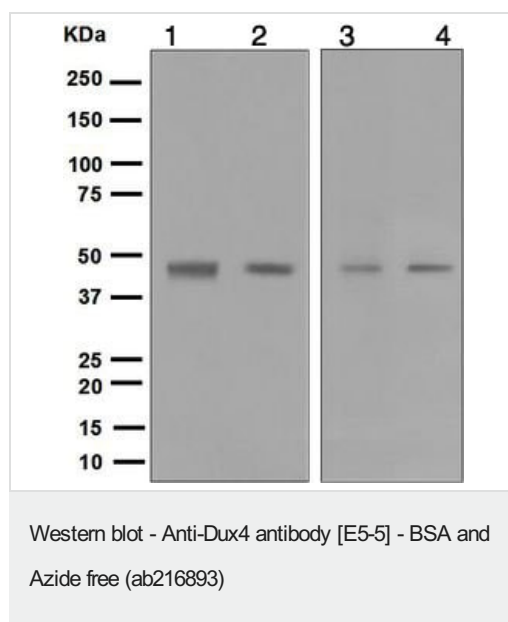
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

Predicted band size: 45 kDa

Observed band size: 45 kDa

This data was developed using [ab124699](#), the same antibody clone in a different buffer formulation.

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

This data was developed using [ab124699](#), the same antibody clone in a different buffer formulation.

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] - BSA and Azide free
(ab216893)

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

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