

Product datasheet

Anti-E.coli O157:H7 Sakai rfbE antibody [27] ab81131

1 Image

Overview

Product name	Anti-E.coli O157:H7 Sakai rfbE antibody [27]
Description	Mouse monoclonal [27] to E.coli O157:H7 Sakai rfbE
Specificity	ab81131 recognizes recombinant <i>Escherichia coli</i> O157:H7 str. Sakai rfbE protein.
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Escherichia coli
Immunogen	Recombinant fragment (Escherichia coli)
General notes	Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Proclin Constituents: Tris HCl, Sodium citrate, pH 7.0
Purity	Protein A purified
Clonality	Monoclonal
Clone number	27
Isotype	IgG1

Applications

Our [Abpromise guarantee](#) covers the use of **ab81131** 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
ELISA		

Application	Abreviews	Notes
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WB

Application notes

ELISA: Use at an assay dependent dilution.
 WB: 1/1000. Predicted molecular weight: 42 kDa.

This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.

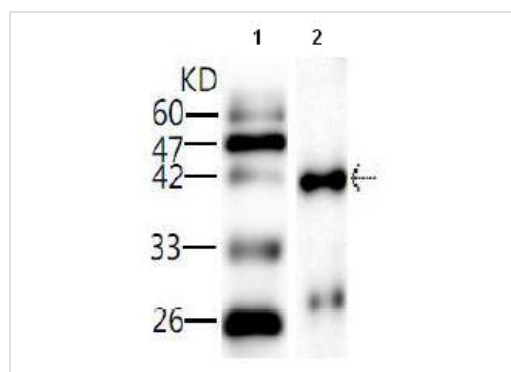
Not yet tested in other applications.
 Optimal dilutions/concentrations should be determined by the end user.

Target

Relevance

E. coli O157:H7 is an enterohemorrhagic strain of the bacterium *E. coli* and a cause of foodborne illness. It is a gram negative rod shaped bacterium. The letter "O" (not a zero) in the name refers to the somatic antigen number, whereas the "H" refers to the flagella antigen. *E. coli* O157:H7 is markedly different from other pathogenic *E. coli*. In particular, the O157:H7 serotype is negative for invasiveness (sereny test), elaborates no colonization factors (CFA/I or CFA/II), doesn't produce heat stable or heat labile toxins and is non-hemolytic. In addition, *E. coli* O157:H7 is usually sorbitol negative whereas 93% of all *E. coli* ferment sorbitol. *E. coli* O157:H7 also lacks the ability to hydrolyze 4-methylumbelliferyl-beta-D-glucuronide (MUG) and does not grow at 45°C in the presence of 0.15% bile salts. Because of the latter characteristic this serotype cannot be isolated by using standard fecal coliform methods that include incubation at 45°C.

Images



Western blot - *E. coli* O157:H7 Sakai rfbE antibody [27] (ab81131)

All lanes : Anti-*E. coli* O157:H7 Sakai rfbE antibody [27] (ab81131) at 1/1000 dilution

Lane 1 : Molecular weight markers

Lane 2 : Recombinant *Escherichia coli* O157:H7 str. Sakai rfbE

Predicted band size : 42 kDa

Observed band size : 42 kDa

Additional bands at : 28 kDa. We are unsure as to the identity of these extra bands.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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