abcam

Product datasheet

# Anti-TIFA (phospho T9) antibody [EPR19853] ab214815

Recombinant RabMAb

2 References 5 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-TIFA (phospho T9) antibody [EPR19853] |
| **Description** | Rabbit monoclonal [EPR19853] to TIFA (phospho T9) |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB, Dot blot, IP |
| **Species reactivity** | **Reacts with:** Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | WB: HeLa transfected with 3×Flag-tagged TIFA expression vector for 24 hours, and then infected with S. flexneri 2457T for 4 hours, whole cell lysate. HEK-293T transfected with GFP-tagged TIFA expression vector for 24 hours, and then infected with B. cenocepacia J2315 for 4 hours, whole cell lysate. IP: HEK-293T transfected with GFP-tagged TIFA expression vector for 24 hours, and then infected with B. cenocepacia J2315 for 4 hours whole cell lysate. |
| **General notes** | This product is a recombinant monoclonal antibody, which offers several advantages including:<br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br>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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.2<br>Preservative: 0.01% Sodium azide<br>Constituents: PBS, 40% Glycerol, 0.05% BSA |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |

| | |
|---|---|
| **Clone number** | EPR19853 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab214815 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

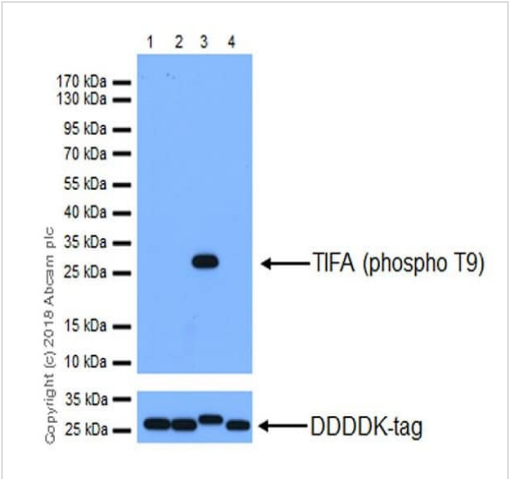
| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/1000. Predicted molecular weight: 21 kDa. |
| **Dot blot** | | 1/1000. |
| **IP** | | 1/30. |

## Target

**Function** Adapter protein which mediates the IRAK1 and TRAF6 interaction following IL-1 stimulation, resulting in the downstream activation of NF-kappa-B and AP-1 pathways. Induces the oligomerization and polyubiquitination of TRAF6, which leads to the activation of TAK1 and IKK through a proteasome-independent mechanism.

**Sequence similarities** Contains 1 FHA domain.

## Images




Western blot - Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815)

**All lanes :** Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815) at 1/1000 dilution

**Lane 1 :** HeLa (Human epithelial cell line from cervix adenocarcinoma) transfected with 3×Flag-tagged TIFA expression vector for 28 hours, whole cell lysate
**Lane 2 :** HeLa transfected with 3×Flag-tagged TIFA T9A mutant expression vector for 28 hours, whole cell lysate
**Lane 3 :** HeLa transfected with 3×Flag-tagged TIFA expression vector for 24 hours, and then infected with S. flexneri 2457T for 4 hours, whole cell lysate
**Lane 4 :** HeLa transfected with 3×Flag-tagged TIFAT9A mutant expression vector for 24 hours, and then infected with S. flexneri 2457T for 4 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/5000 dilution

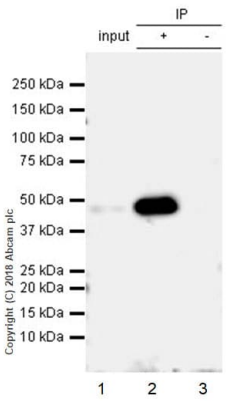
**Predicted band size:** 21 kDa
**Observed band size:** 26 kDa

**Exposure time:** 30 seconds

Blocking/Dilution buffer: 5% milk/TBST.

The image was kindly provided by our collaborator Dr Feng Shao's lab, NIBS.

*S. flexneri* infection induces an innate immune response (PMID: 28222186).



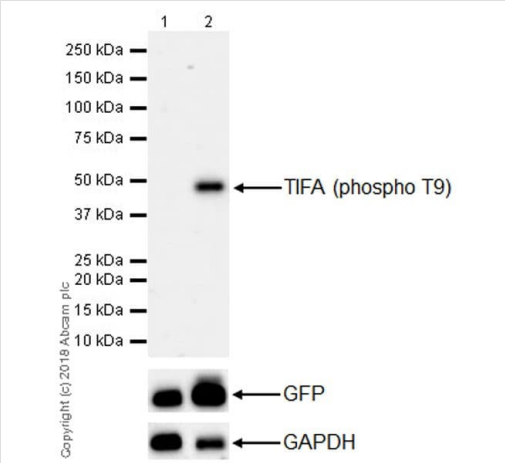

Immunoprecipitation - Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815)

TIFA (phospho T9) was immunoprecipitated from 0.35 mg HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate with ab214815 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab214815 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5,000 dilution

**Lane 1:** HEK-293T transfected with GFP-tagged TIFA expression vector for 24 hours, and then infected with *B. cenocepacia* J2315 for 4 hours whole cell lysate 10 µg (Input).
**Lane 2:** ab214815 IP in HEK-293T transfected with GFP-tagged TIFA expression vector for 24 hours, and then infected with *B. cenocepacia* J2315 for 4 hours whole cell lysate (+).
**Lane 3:** Rabbit monoclonal IgG (**ab172730**) instead of ab214815 in HEK-293T transfected with GFP-tagged TIFA expression vector for 24 hours, and then infected with *B. cenocepacia* J2315 for 4 hours whole cell lysate (-).

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: 3 minutes.

The lysates were kindly provided by our collaborator Dr Feng Shao's lab, NIBS.




Western blot - Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815)

**All lanes :** Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815) at 1/5000 dilution

**Lane 1 :** HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with GFP-tagged TIFA expression vector, whole cell lysate
**Lane 2 :** HEK-293T transfected with GFP-tagged TIFA expression vector for 24 hours, and then infected with B. cenocepacia J2315 for 4 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

**Predicted band size:** 21 kDa
**Observed band size:** 47 kDa

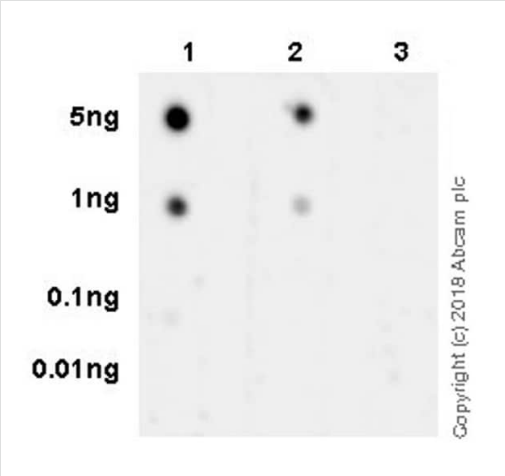
**Exposure time:** 103 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

The band observed represents GFP-tagged TIFA pT9.

The lysates were kindly provided by our collaborator Dr Feng Shao's lab, NIBS.

*B. cenocepacia* J2315 infection elicits an inflammatory response. (PMID: 27133449)




Dot Blot - Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815)

Dot blot analysis of TIFA (phospho T9) labeled with ab214815 at 1/1000 dilution.

**Lane 1:** TIFA (phospho T9) peptide (aa3-12).

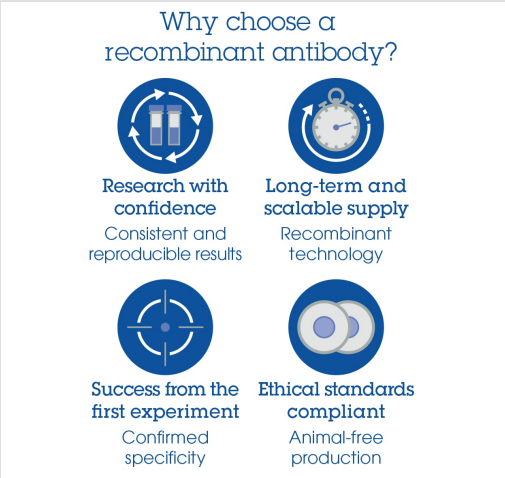
**Lane 2:** TIFA (phospho T9) peptide (aa5-15).

**Lane 3:** TIFA non-phospho peptide (aa3-15).

Secondary used was Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) at 1/100000 dilution.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 10 seconds.




Anti-TIFA (phospho T9) antibody [EPR19853] (ab214815)

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

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