## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-15 Lipoxygenase 1 antibody [OTI3G8]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Mouse monoclonal [OTI3G8] to 15 Lipoxygenase 1</td>
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<tr>
<td>Host species</td>
<td>Mouse</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P, ICC/IF</td>
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<tr>
<td>Species reactivity</td>
<td>Reacts with: Rat, Dog, Human, Monkey</td>
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<tr>
<td>Immunogen</td>
<td>Recombinant full length, Human 15 Lipoxygenase 1 produced in HEK293T cells (NP_001131).</td>
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<tr>
<td>Positive control</td>
<td>HEK293T cells transfected with pCMV6-ENTRY 15 Lipoxygenase 1 cDNA; HepG2, HeLa, A549, COS7, MDCK, PC12 and MCF7 cell extracts; Human breast, Human pancreas carcinoma, Human thyroid carcinoma, Human endometrium, Human endometrium adenocarcinoma, Human prostate carcinoma and Human bladder carcinoma; COS7 cells transiently transfected by pCMV6-ENTRY 15 Lipoxygenase 1.</td>
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<tr>
<td>General notes</td>
<td>The clone number has been updated from 3G8 to OTI3G8, both clone numbers name the same clone.</td>
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</table>

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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<tbody>
<tr>
<td>Storage instructions</td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.</td>
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</tbody>
</table>
| Storage buffer     | pH: 7.30  
Preservative: 0.02% Sodium azide  
 Constituents: PBS, 1% BSA, 50% Glycerol |
| Purity             | Protein A purified |
| Purification notes | Purified from TCS |
| Clonality          | Monoclonal |
| Clone number       | OTI3G8 |
| Isotype            | IgG2b |

## Applications

Our Abpromise guarantee covers the use of ab119774 in the following tested applications.
Function
Converts arachidonic acid to 15S-hydroperoxyeicosatetraenoic acid. Also acts on C-12 of arachidonate as well as on linoleic acid.

Pathway
Lipid metabolism; leukotriene D4 biosynthesis.

Sequence similarities
Belongs to the lipoxygenase family.
Contains 1 lipoxygenase domain.
Contains 1 PLAT domain.

Cellular localization
Cytoplasm.

Images

Western blot - Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774)

All lanes: Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774) at 1/500 dilution

Lane 1: HEK293T cells transfected with pCMV6-ENTRY control
Lane 2: HEK293T cells transfected with pCMV6-ENTRY 15 Lipoxygenase 1 cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size: 75 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone RC209418

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/150.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td></td>
<td>1/100.</td>
</tr>
</tbody>
</table>
Western blot - Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774)

**All lanes:** Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774) at 1/500 dilution

- **Lane 1:** HepG2 cell extracts
- **Lane 2:** HeLa cell extracts
- **Lane 3:** SVT2 cell extracts
- **Lane 4:** A549 cell extracts
- **Lane 5:** COS7 cell extracts
- **Lane 6:** Jurkat cell extracts
- **Lane 7:** MDCK cell extracts
- **Lane 8:** PC12 cell extracts
- **Lane 9:** MCF7 cell extracts

Lysates/proteins at 35 μg per lane.

**Predicted band size:** 75 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone RC209486

ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human breast tissue by Immunohistochemistry.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774)

ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human pancreas carcinoma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774)

ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human thyroid carcinoma tissue by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-15 Lipoxygenase 1 antibody [OTI3G8] (ab119774)

ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human endometrium tissue by Immunohistochemistry.
ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human endometrium adenocarcinoma tissue by Immunohistochemistry.

ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human prostate carcinoma tissue by Immunohistochemistry.

ab119774 at 1/150 dilution, staining 15 Lipoxygenase 1 in formalin-fixed, paraffin-embedded Human bladder carcinoma tissue by Immunohistochemistry.
ab119774 at 1/100, staining 15 Lipoxigenase 1 in COS7 cells transiently transfected with pCMV6-ENTRY 15 Lipoxigenase 1, by immunofluorescence.

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