Monoclonal anti-L-Kynurenine antibody 3D4-F2 enabled to illustrate, for the first time, the presence of L-kynurenine in human samples by IHC and IF. Highly specific and affine, the 3D4-F2 mAb proved to consistently yield reproducible results at low concentration, both in brain and tumor tissues.

Clonality | Monoclonal antibody (clone 3D4-F2)
---|---
Host | Mouse (see anti-KYN rabbit pAb)
Valided applications | IHC / IF
Specie reactivity | Reacts with all species
References | Not yet cited to our knowledge. Submit content and get a 10% discount!
Format | 50µl
## Product information

### Product overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>L-Kynurenine antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Synonyms</strong></td>
<td>(S)-Kynurenine antibody</td>
</tr>
<tr>
<td></td>
<td>L-2-Amino-4-(2-aminophenyl)-4-oxobutanoic acid antibody</td>
</tr>
<tr>
<td></td>
<td>Kynurenin antibody</td>
</tr>
<tr>
<td></td>
<td>?-Anthraniloyl-L-alanine antibody,</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Conjugated L-Kynurenine</td>
</tr>
<tr>
<td><strong>Isotype</strong></td>
<td>IgG1 k chain</td>
</tr>
<tr>
<td><strong>Clone</strong></td>
<td>clone 3D4-F2</td>
</tr>
<tr>
<td><strong>Specificity</strong></td>
<td>When tested in competitive ELISA, the anti-L-Kynurenine antibody did not show any significant cross reactivity with L-Tryptophan, 3-hydroxy-DL-Kynurenine, Kynurenic acid, Anthranilic acid or 3-hydroxyAnthranilic acid conjugates</td>
</tr>
<tr>
<td><strong>Lot number</strong></td>
<td>140201</td>
</tr>
</tbody>
</table>

### Reconstitution & storage

<table>
<thead>
<tr>
<th>Form</th>
<th>Lyophilized powder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purity</td>
<td>Purified IgG</td>
</tr>
<tr>
<td>Concentration</td>
<td>0,5 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4°C</td>
</tr>
</tbody>
</table>

**Storage buffer**

Before use, vial should be resuspended in 50 µL of ultrapure water. Store at +4°C for short term (1-2 weeks). Aliquot and store at -20°C for long term. Avoid repeated freeze / thaw cycles.
Protocols

Immunohistochemistry (IHC)  
Dilute at 1:200-1:2000. Perform heat antigen retrieval (pH=6) before initiating IHC staining protocol on paraffin-embedded and frozen sections.

Immunofluorescence (IF)  
Dilute at 1:100-1:1000 on paraffin-embedded and frozen sections. Before staining, perform heat antigen retrieval.

Comments  
Optimal working dilutions must be determined by the end-user.

Restrictions  
For research use only.

References

Antibody not yet cited. Submit an article and get a 10% discount.

Selected articles on L-Kynurenine:


L-Kynurenine

L-Kynurenine, the first stable by-product of the kynurenine pathway, is synthesized from L-Tryptophan by indoleamine 2,3-dioxygenase (IDO1/2) or tryptophan 2,3-dioxygenase (TDO2) enzymes. Acting as an endogenous ligand of Aryl hydrocarbon Receptor (AhR), L-Kynurenine exerts anti-inflammatory effects and promotes glioma progression. L-kynurenine is also widely used as a biomarker of tryptophan catabolism and kynurenine pathway activation in immune-related and neurological disorders.

Affinity & Specificity of anti-L-Kynurenine mAb 3D4-F2

Competitive ELISA demonstrates that low amounts of L-Kynurenine conjugate are required to abolish antigen-antibody reaction (high affinity), while rising concentrations of 3-OH-Kynurenine conjugate do not affect reaction (high specificity).

L-Kynurenine detection in human brain tissue by IHC

Detection of L-Kynurenine in glial cells in human caudate putamen. Paraffin-embedded tissue section was subjected to pH=6 antigen retrieval followed by overnight incubation with primary antibody (dilution 1/500). After incubation with polymer-conjugated secondary Ab, DAB was used to visualize the staining.
L-Kynurenine detection in human colon cancer tissue by IHC

Immunohistochemical staining of human colorectal cancer tissue shows cytoplasmic accumulation of L-Kynurenine in tumour cells. Paraffin-embedded tissue section was subjected to pH=6 antigen retrieval, and overnight incubation with primary antibody (1/500 dilution). A polymer-conjugated secondary Ab was added and immunostaining was revealed using DAB.

L-Kynurenine visualization in human intestinal immune cells by IF

Immunofluorescence staining reveals L-Kynurenine accumulation in specific immune cells in human colon tissue. Paraffin-embedded tissue section was subjected to pH=6 antigen retrieval followed by overnight incubation with primary antibody (dilution 1/250). After incubation with Alexa-488 conjugated secondary Ab, epifluorescence microscopy (100X) was used to visualize IF staining.

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For further information about this kit, its application or the procedures in this kit insert, please contact the Technical Service Team at Eagle Biosciences, Inc. at info@eaglebio.com or at 866-411-8023.