

Welcom to STAIN.AI APP

Your AI-powered platform for microglia cell classification and region-based analysis.



STAIN.AI APP is designed to quantify, classify and visualize the distribution of different microglial cells on immunohistochemistry slides (e.g., Iba1). This interface allows you to view AI-classified maps, select specific regions of interest (ROIs), and generate quantitative data.

+ Upload Images

1. Click **+ Upload Image** on the left panel.
2. Select your image files (PNG/JPEG format, size ≤ 10 MB are recommended).
3. Once uploaded, the image will appear in the list.
4. Select an image to be shown in the central viewer.

Viewer Tools

Buttons to provide the following funcions:



Zoom In



Polygon ROI



Zoom Out



Freehand ROI



Default Zoom



ROI Color



Drage Image



Delete ROIs



Show ROIs



Hide ROIs

CLASS TO DISPLAY

Select one or more cell types to display.



Ramified



Amoeboid



Hypertrophic



Rod



Bushy



Hyper-Rod




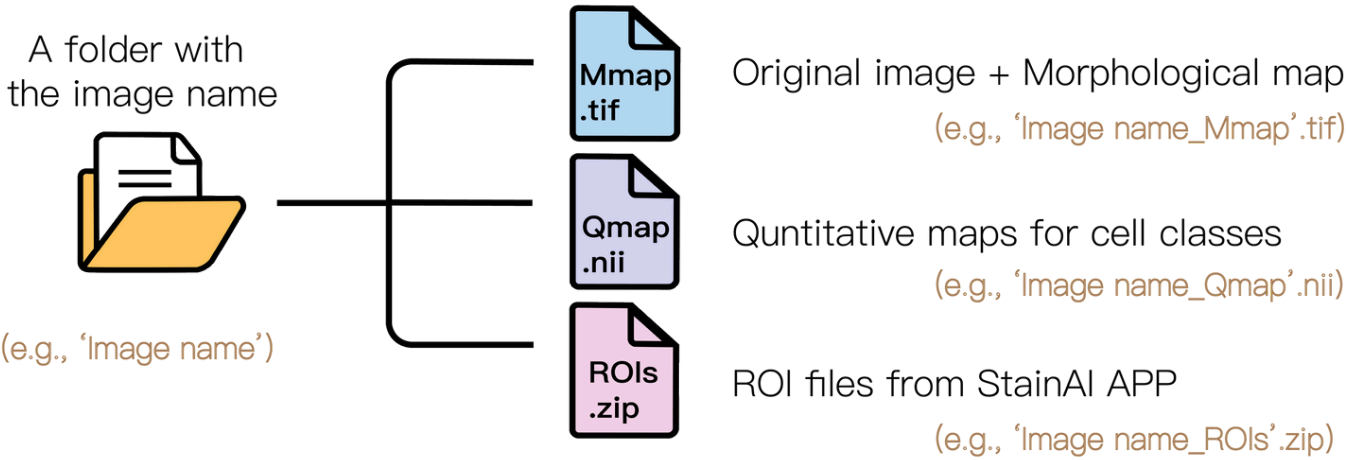
Show All Classes

ROI Analysis

1. Use the ROI tool to add an region for analysis.
2. Select one or more ROIs to display classification result.
3. Click **+ Chart** to add an additional chart.
4. Select desired ROIs to compare results.
5. Click **...** on any chart to **Delete** or **Save map/chart as a screenshot**

Export Data

1. Click  to **Export the data** for on-prem analysis (e.g., ImageJ).
2. StainAI results include:



Tips for Use

- Zoom in to refine your ROI drawing.
- Multiple ROIs can be compared side-by-side.
- Cell classes are color-coded for the ease of result interpretation.
- Charts are automatically updated when ROIs are drawn or adjusted.