Virtual IHC Analysis Report

Analysis Information

Session ID:	c263d07e-ca32-49b0-bb6e-f986e810c260
Original File:	An_InDepth_Look_at_the_Hematoxylin_Eosin_HE_StainPart_1.png
Analysis Date:	2025-08-07 20:02:10
Processing Time:	0:00:03.527183
Status:	COMPLETED

Analysis Results

HER2 Status:	positive
Confidence Score:	86.4%
Cancer Grade:	Grade 2
Biomarker Expression:	67.6%
Staining Intensity:	strong

Quantitative Analysis

Positive Cells:	877
Total Cells:	1298
Positive Percentage:	67.6%
Stained Area:	56.2%

Summary

HER2 Expression Analysis Summary:

HER2 Status: POSITIVE (Confidence: 86.4%)
Cancer Grade: Grade 2
Biomarker Expression: 67.6% of analyzed tissue
Staining Intensity: strong

This analysis was performed using virtual IHC generation from H&E; stained tissue sections.

Recommendations

Recommendations:
• Consider HER2-targeted therapy (e.g., trastuzumab)
• Evaluate for combination with chemotherapy
• Monitor for cardiotoxicity during treatment
• Consider genetic counseling if familial history present

Technical Notes

Technical Analysis Notes:

Image Processing:
• Original H&E; image successfully processed
• Virtual IHC generation completed using deep learning model
• Image quality: Suitable for analysis

Analysis Parameters:
• Model confidence: 86.4%
• Processing time: 3.5 seconds
• Image resolution: Maintained from original

Quality Metrics:
• Biomarker detection accuracy: High
• Morphological preservation: Excellent
• Artifact level: Minimal