

ClearBand GAPDH Antibody

Troubleshooting Guide

100 µL

Cat No: AB002597

Use this guide for common immunoblotting or ELISA problems with ClearBand GAPDH Antibody. The product is an unconjugated rabbit polyclonal antibody reactive with human GAPDH, supplied at 1 mg/mL in PBS containing 0.09% sodium azide.

Before You Start - Quick Checks

1. Store at -20°C and avoid repeated freeze-thaw cycles.
2. Confirm that the sample is human when relying on the stated reactivity.
3. For Western blotting, expect GAPDH at approximately 36 kDa.
4. The datasheet does not provide a universal working dilution; optimize antibody concentration for the specific assay system.

Problem	Most likely cause	Recommended action
No GAPDH signal	The sample species may not match the stated human reactivity, or the assay setup may not support the unconjugated rabbit antibody.	Confirm human sample origin and use a detection system appropriate for an unconjugated rabbit primary antibody.
Band is not near the expected size	The observed band may not correspond to the stated 36-kDa GAPDH target.	Verify molecular-weight marker performance, transfer, and detection before assigning the band as GAPDH.
Signal is too weak	Primary-antibody concentration or the detection workflow may not be optimized.	Optimize the antibody concentration empirically because the datasheet does not specify one universal working dilution.
Background or multiple bands are excessive	The antibody concentration or assay conditions may be too permissive for the specific sample.	Titrate the primary antibody and optimize the immunoblot or ELISA conditions while keeping the sample and detection system constant.
A direct fluorescent or enzyme signal is expected from the primary antibody	The product is unconjugated.	Use a suitable secondary/detection system rather than expecting direct signal from the primary antibody itself.
Performance changes between aliquots	Repeated freeze-thaw cycles may have occurred.	Store at -20°C and minimize repeated freeze-thaw handling.
ELISA works but WB does not, or vice versa	The product supports both applications, but assay conditions differ.	Optimize the antibody independently for ELISA and Western blot rather than transferring conditions unchanged.
Concentration calculations are inconsistent	The stock concentration may not have been accounted for.	Use the labeled 1 mg/mL stock concentration when preparing assay-specific dilutions.

Still having trouble? Confirm human reactivity, rabbit/unconjugated detection compatibility, -20°C storage, the approximately 36-kDa target size, and an empirically optimized antibody dilution.