

Anti-HA High Affinity Antibody (3F10) for Epitope Tagging

Now conjugated to biotin, fluorescein, or horseradish peroxidase

The new Anti-HA High Affinity antibody (clone 3F10) is now available conjugated to biotin, fluorescein (FITC), or horseradish peroxidase (HRP). These conjugates produce cleaner results and higher sensitivity than any other anti-HA antibody currently on the market. The high-affinity binding of this antibody lets you use lower concentrations of antibody and achieve greater specificity. In addition, Anti-HA High Affinity antibody conjugates simplify protein localization and detection tasks. You can now perform experiments that were not possible before.

Anti-HA-Peroxidase, High Affinity is ideal for western blot analysis.

- Minimize background activity even at high protein loading (**Figure 1**).
- Eliminate immunoglobulin bands and background through direct conjugation.
- Save time with fewer antibody incubation steps.
- Perform immunocytochemical detection.

Anti-HA-Fluorescein, High Affinity (available 3rd quarter) is designed for immunofluorescence and flow cytometry (**Figure 2**).

- Reduce background staining of cells.
- Increase sensitivity for subcellular localization.
- Simplify dual detection of HA and another antigen.
- Perform a simple one-step flow cytometry procedure.

Anti-HA-Biotin, High Affinity provides flexibility (**Figure 3**).

- Identify two antigens on western blotting or immunohistochemistry.
- Choose from Roche Molecular Biochemicals' large selection of streptavidin enzyme or fluorescent conjugates.

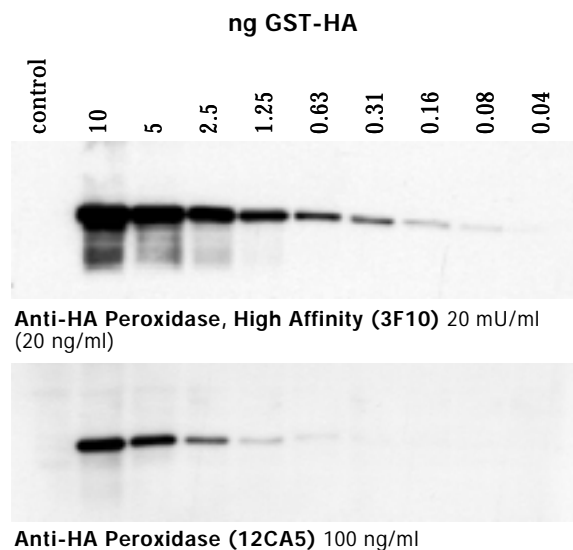


Figure 1: Western blot analysis of HA-tagged Glutathione-S-transferase (GST-HA) detected with Anti-HA-Peroxidase, High Affinity (3F10) and Anti-HA-Peroxidase (12CA5). Purified GST-HA was serially diluted to the indicated amounts in 15 μ g of eucaryotic cell extract. Detection performed with the indicated amounts of Anti-HA-Peroxidase, High Affinity (3F10) or Anti-HA-Peroxidase (12CA5), followed by a 3 minute exposure with the BM Chemiluminescence Blotting Substrate (POD). The control lane is an untransfected eucaryotic cell extract (15 μ g total protein).

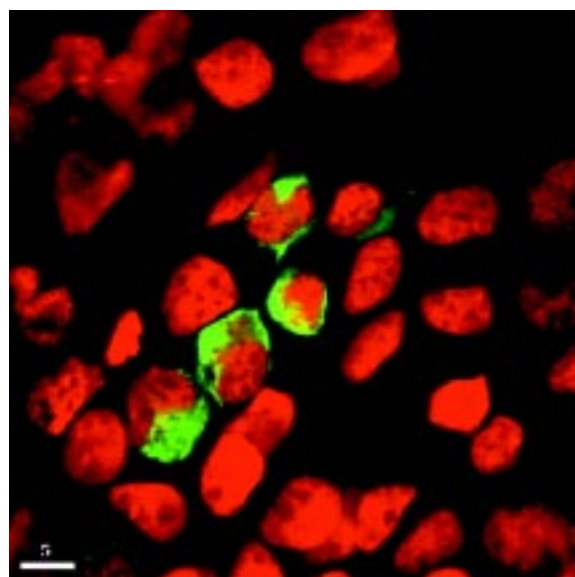


Figure 2: 293 cells were transfected with N-terminal HA-tagged BLR1 (1,2) using the calcium phosphate precipitation method. Cells grown on slides were stained using Anti-HA-Fluorescein, High Affinity (3F10), according to the package insert, and analyzed by confocal microscopy. Red staining represents counterstaining of nuclei using propidium iodide.

(1) Förster et al. (1996) *Cell* **87**: 1037-1047

(2) Emrich et al. (1993) *Biochem. Biophys. Res. Commun.* **197**: 214-220

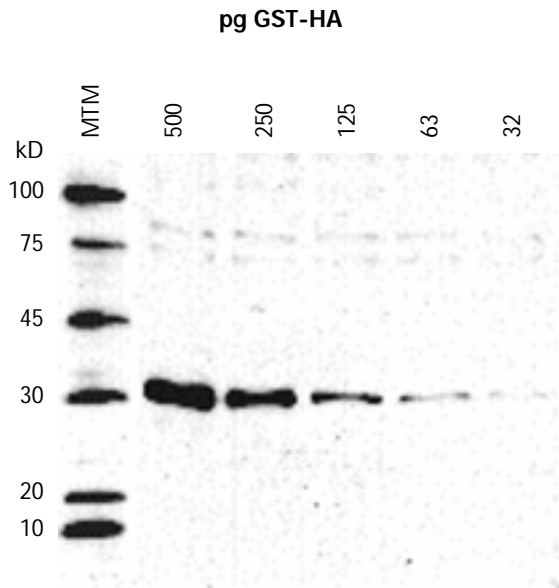


Figure 3: Western blot analysis of HA-tagged Glutathione-S-transferase (GST-HA) detected with Anti-HA-Biotin, High Affinity (3F10). Purified GST-HA was serially diluted to the indicated amounts in 10 μ g of protein from eucaryotic cell extract. HA-tagged proteins were detected with 100 ng/ml Anti-HA-Biotin, High Affinity (3F10) and 20 mU/ml Anti-Biotin-Peroxidase, followed by a 3 minute exposure with the BM Chemiluminescence Blotting Substrate (POD). The observed background activity is derived from non-specific binding of the secondary detection antibody (data not shown). **MTM: Multi-Tag-Marker.**

Product	Cat. No.	Pack Size
NEW! Anti-HA-Peroxidase, High Affinity (3F10)	2 013 819	25 U (25 μ g)
NEW! Anti-HA-Fluorescein, High Affinity (3F10)	1 988 506	25 μ g
NEW! Anti-HA-Biotin, High Affinity (3F10)	2 158 167	50 μ g
Anti-HA High Affinity (3F10)	1 867 423	50 μ g
	1 867 431	500 μ g
pHB6 Bacterial Expression Vector (N-HA+His ₆ -C)	1 814 575	20 μ g
pVB6 Bacterial Expression Vector (N-VSV-G+His ₆ -C)	1 814 583	20 μ g
pBH Bacterial Expression Vector (HA-C)	1 814 605	20 μ g
pBV Bacterial Expression Vector (N-VSV-G-C)	1 814 613	20 μ g
pHM6 Mammalian Expression Vector (N-HA+His ₆ -C)	1 814 664	20 μ g
pVM6 Mammalian Expression Vector (N-VSV G+His ₆ -C)	1 814 672	20 μ g
pMH Mammalian Expression Vector (HA -C)	1 814 702	20 μ g
pMV Mammalian Expression Vector (VSV-G-C)	1 814 729	20 μ g
HA Peptide	1 666 975	5 mg
Multi-Tag-Marker	1 828 649	250 μ l
Lumi-Light ^{PLUS} Western Blotting Kit (Mouse/Rabbit)	2 015 218	1000 cm ² membrane
Complete, EDTA-free Protease Inhibitor Cocktail Tablets	1 873 580	20 tablets
Complete Mini, EDTA-free Protease Inhibitor Cocktail Tablets	1 836 170	25 tablets
RIPA Buffer Set	1 920 693	250 ml

