

Anti-His₆-Peroxidase Conjugate

Just do it directly!

Anti-His₆-Peroxidase is your new tool of choice for the direct detection of poly-His-containing fusion proteins! It performs well in immunoblotting (both Western blot and dot blot), immunoprecipitation, and ELISA-based assays. It recognizes six consecutive histidine residues independent of adjacent sequences or the location of the

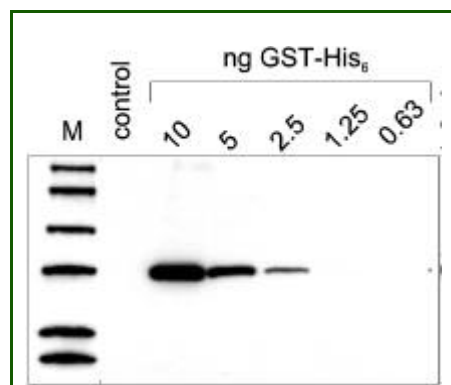


Figure 7 Immunoblot of a His₆-tagged GST-fusion protein (GST-His₆, 30 kD) serially diluted in an untransfected eucaryotic cell extract (20 µl total protein per lane) and directly detected using Anti-His₆-Peroxidase (100 mU/ml) and the BM Chemiluminescence Blotting substrate (POD)*. The control lane is an untransfected eucaryotic cell extract (20 µg total protein). M: Multi-Tag-Marker, molecular weight markers, 10 kD to 100 kD.

histidine tag in the protein sequence. The direct conjugation of peroxidase saves time and eliminates the need for a secondary detection system.

The antibody features:

- the possibility of a convenient purification of the protein (e.g., with the Poly-His Protein Purification Kit), and
- the possibility of direct detection by Western blot (with Anti-his₆-POD).

Anti-His₆-Peroxidase is the horseradish peroxidase conjugate of anti-His₆ clone BMG-His-1. The antibody, the only peroxidase conjugated anti-polyhistidine antibody on the market, reacts with both native and denatured his-tagged fusion proteins.

Product	Cat. No.	Pack Size
Anti-His ₆ Peroxidase conjugate	1 965 085	50 U

Also Available:	Cat. No.	Pack Size
Anti-HA (12CA5)	1 583 816	200 µg
Anti-HA High Affinity (3F10)	1 867 423	50 µg
Anti-HA Biotin (12CA5)	1 666 851	100 µg (500 µl)
Anti-HA Fluorescein (12CA5)	1 666 878	100 µg (500 µl)
Anti-HA Peroxidase (12CA5)	1 667 475	50 µg
Anti-HA Rhodamine (12CA5)	1 666 959	100µg (500 µl)
Anti-c-myc	1 667 149	20 µg
Anti-c-myc-Peroxidase	1 814 150	500 µg
c-myc Peptide	1 667 246	5 mg
Anti-VSV-G	1 667 351	200 µg
Anti VSV-G Peroxidase	1 814 133	500 µg

TUNEL Dilution Buffer

Convenient dilutions of TdT within the TUNEL reaction mix

The new TUNEL Dilution Buffer is designed to be used with the Boehringer Mannheim *In Situ* Cell Death Detection Kits for the dilution of terminal deoxynucleotidyl transferase (TdT) in the TUNEL reaction mix for the labeling reaction in special applications.

For certain tissue sections (as proliferating tissue), the concentration of TdT in the *In Situ* Cell Death Detection Kits may need to be adjusted because Okazaki fragments or other characteristics present inside the cells can influence the labeling. To overcome this problem of overstaining, a dilution of the TdT component of the kits is helpful.

DNA fragmentation, a key biochemical event of apoptosis, results in cleavage of nuclear DNA into oligonucleosome-sized fragments. This apoptotic event is commonly detected by a DNA ladder on agarose gel. An alternate method is needed to obtain information about apoptosis in individual cells or to relate cellular apoptosis to histological localization or cell differentia-

tion: the enzymatic *in situ* labeling of DNA strand breaks, which occur at an early stage during apoptosis.

Both DNA polymerase and TdT have been used to introduce labeled nucleotides into partially degraded DNA. The tailing reaction using TdT, also named ISEL (*in situ* end labeling) or TUNEL (TdT-mediated dUTP nick end labeling), has several advantages over *in situ* nick translation (ISNT) using DNA polymerase:

- The label intensity of apoptotic cells is higher with TUNEL compared to ISNT, resulting in an increased sensitivity.
- The kinetics of nucleotide incorporation is very rapid with TUNEL compared to ISNT.
- TUNEL preferentially labels apoptotic cells compared to necrotic cells.

Product	Cat. No.	Pack Size
TUNEL Dilution Buffer	1 966 006	2 x 10 ml

Also Available:	Cat. No.	Pack Size
TUNEL Enzyme	1 767 305	2 x 50 µl (20 tests)
TUNEL AP	1 772 457	3.5 mL (70 tests)
TUNEL POD	1 772 465	3.5 mL (70 tests)
TUNEL Label	1 767 291	3 x 50 µl (30 tests)
<i>In Situ</i> Cell Death Detection Kit, AP	1 684 809	1 kit (50 tests)
<i>In Situ</i> Cell Death Detection Kit, Fluorescein	1 684 795	1 kit (50 tests)
<i>In Situ</i> Cell Death Detection Kit, POD	1 684 817	1 kit (50 tests)
Apoptotic DNA-Ladder Kit	1 835 246	20 tests