Human/Mouse/Rat HO-2/HMOX2 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3170

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	The antibody is known to react with endogenous human, mouse, and rat HO-2 in in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human HO-2/HMOX2 Met1-Met316 Accession # P30519
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

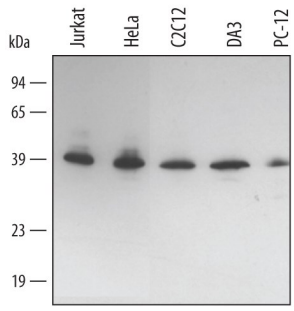
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.5 µg/mL	See Below
Simple Western	5 µg/mL	See Below

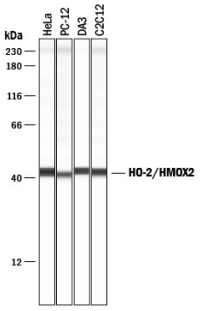
DATA

Western Blot



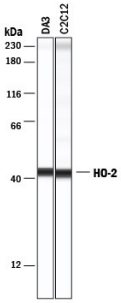
Detection of Human/Mouse/Rat HO-2/HMOX2 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, HeLa human cervical epithelial carcinoma cell line, C2C12 mouse myoblast cell line, DA3 mouse myeloma cell line, and PC-12 rat adrenal pheochromocytoma cell line. PVDF membrane was probed with 0.5 µg/mL of Human/Mouse/Rat HO-2/HMOX2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3170) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for HO-2/HMOX2 at approximately 38 kDa (as indicated). This experiment was conducted using Immunoblot Buffer Group 2.

Simple Western



Detection of Human, Mouse, and Rat HO-2/HMOX2 by Simple Western™. Simple Western lane view shows lysates of HeLa human cervical epithelial carcinoma cell line, PC-12 rat adrenal pheochromocytoma cell line, DA3 mouse myeloma cell line, and C2C12 mouse myoblast cell line, loaded at 0.2 mg/mL. A specific band was detected for HO-2/HMOX2 at approximately 43 kDa (as indicated) using 5 µg/mL of Goat Anti-Human/Mouse/Rat HO-2/HMOX2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3170) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Simple Western



Detection of Mouse HO-2/HMOX2 by Simple Western™. Simple Western lane view shows lysates of DA3 mouse myeloma cell line and C2C12 mouse myoblast cell line, loaded at 0.2 mg/mL. A specific band was detected for HO-2/HMOX2 at approximately 43 kDa (as indicated) using 5 µg/mL of Goat Anti-Human/Mouse/Rat HO-2/HMOX2 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3170) followed by 1:50 dilution of HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449

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BACKGROUND

Heme Oxygenase 2 (HO-2), also known as HMOX2, is a 36 kDa microsomal enzyme required for the metabolism of heme to biliverdin. Heme oxygenase occurs as 2 isozymes, the constitutively expressed heme oxygenase-2 (HO-2/HMOX2) and the inducible heme oxygenase-1 (HO-1/HMOX1). HO-1 expression is induced by heme and other non-heme compounds. Human HO-2 shares 42% amino acid sequence identity with human HO-1 and 89% amino acid sequence identity with mouse and rat HO-2.

Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449