Human/Mouse HO-1/HMOX1/HSP32 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3776

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse HO-1/HMOX1/HSP32 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant human HO-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human HO-1/HMOX1/HSP32 Met1-Thr261 Accession # P09601
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.

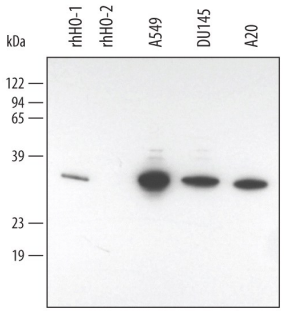
APPLICATIONS

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	25 µg/mL	See Below
Knockout Validated	HO-1/HMOX1/HSP32 is specifically detected in HeLa human cervical epithelial carcinoma parental cell line but is not detectable in HO-1/HMOX1/HSP32 knockout HeLa cell line.	

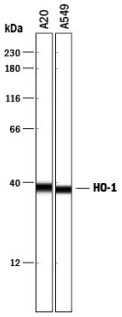
DATA

Western Blot



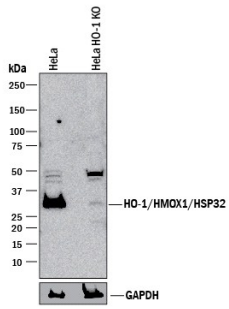
Detection of Human/Mouse HO-1/HMOX1/HSP32 by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line, DU145 human prostate carcinoma cell line, and A20 mouse B cell lymphoma cell line. PVDF membrane was probed with 0.5 µg/mL Goat Anti-Human/Mouse HO-1/HMOX1/HSP32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3776) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). For additional reference, recombinant human HO-1 and HO-2 (5 ng/lane) were included. A specific band for HO-1/HMOX1/HSP32 was detected at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Simple Western



Detection of Human and Mouse HO-1/HMOX1/HSP32 by Simple Western™. Simple Western lane view shows lysates of A20 mouse B cell lymphoma cell line and A549 human lung carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for HO-1/HMOX1/HSP32 at approximately 37 kDa (as indicated) using 25 µg/mL of Goat Anti-Human/Mouse HO-1/HMOX1/HSP32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3776) 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.

Knockout Validated



Western Blot Shows Human HO-1/HMOX1/HSP32 Specificity by Using Knockout Cell Line. Western blot shows lysates of HeLa human cervical epithelial carcinoma parental cell line and HO-1/HMOX1/HSP32 knockout HeLa cell line (KO). PVDF membrane was probed with 0.5 µg/mL of Goat Anti-Human/Mouse HO-1/HMOX1/HSP32 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3776) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF017). A specific band was detected for HO-1/HMOX1/HSP32 at approximately 32 kDa (as indicated) in the parental HeLa cell line, but is not detectable in knockout HeLa cell line. GAPDH (Catalog # AF5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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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Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3776

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.

BACKGROUND

Heme Oxygenase 1 (HO-1), also known as HMOX1 and Heat Shock Protein 32 (HSP32), is a 32 kDa microsomal enzyme required for the metabolism of heme to biliverdin. Heme oxygenase occurs as 2 isozymes, an inducible heme oxygenase-1 (HO-1/HMOX1) and a constitutive heme oxygenase-2 (HO-2/HMOX2). HO-1 expression is induced by heme and other non-heme compounds. Human HO-1 shares 82% amino acid sequence identity with mouse HO-1.

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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