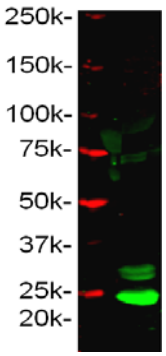
Product Data Sheet

Product Name:	**Anti-MMP-11b (Catalytic domain), Z-Fish™** *(Matrix Metalloproteinase 11b; stromelysin 3)*
Catalog Number:	55689
Lot Number:	See label on vial
Product Description:	This rabbit polyclonal antibody is supplied as an epitope-affinity purified rabbit IgG in 250 µl of 40 mM MOPS buffer (pH 7.5) containing 0.1% BSA, 0.05% NaN3, and 50% glycerol.
Immunogen:	A synthetic peptide derived from the catalytic domain of zebrafish MMP-11b (GenBank accession# XP_694153.3).
Species Reactivity:	The species reactivity is exclusively to zebrafish. The antibody reactivity was validated by ELISA. The specificity was confirmed by Western blot analysis of zebrafish lysate.
Application Notes:	This antibody has been validated by ELISA against the immunizing peptide and Western Blot analysis in zebrafish lysate. Other potential applications including Immunohistochemistry (IHC) and/or Immunoprecipitation (IP) have not been determined. The following concentration ranges are recommended starting points for this product. The investigator should determine the optimal working concentrations for specific applications. ELISA for immunizing peptide: 1: 5,000-20,000 Western Blot: 1: 500-1,000 Immunohistochemistry* *Application not guaranteed.



Western blot analysis of MMP-11ba in zebrafish embryonic lysate (24 hpf) with the anti-MMP-11b (Catalytic) antibody (cat#55689).

Background:

Matrix Metalloproteinase 11b, a member of the matrix metalloproteinase family, demonstrates wide substrate specificity with the ability to degrade proteoglycan, fibronectin, laminin, casein, and the non-helical region of collagen. The MMP-11 gene was originally identified on the basis that it is expressed specifically in stromal cells surrounding invasive breast carcinomas (1). MMP-11 is a unique MMP because it is not secreted as a zymogen but is processed by furin within the constitutive secretory pathway (2). Compared with other MMPs, MMP-11 shows a different molecular structure, different activity, different gene organization and regulation (2). The MMP-11 was also studied in the Danio Rerio (zebrafish) (3).

References:

1. Ishizugya-Oka A, et al. 2000; J Cell Biol 150:1177–1188.
2. Lijnen HR, et al. 1999; Arterioscler Thromb Vasc Biol 19:2863–2870.
3. Huxley-Jones, J., et al. 2007; BMC Evol. Biol. 7(1): 63

Storage:

Store -20 °C for up to 24 months upon receiving the product.

Related Products:

Anti- MMP-11b (catalytic domain) blocking peptide, Z-Fish™, Cat. # 55689P

Anti- MMP-9 (hinge), Z-Fish™ , Cat. # 55345

Anti-MMP-2 (IN), Z-Fish™ , Cat. # 55111

Anti- MMP-13 (hinge), Z-Fish™, Cat. # 55114

Anti-MMP-14 alpha (hinge), Z-Fish™, Cat. # 55115

Anti- MMP-14 beta (hinge), Z-Fish™, Cat. # 55116

Anti- MMP-14 beta (CT), Z-Fish™, Cat. # 55380

Anti-MMP-17 (hinge), Z-Fish™, Cat. # 55358

Anti- MMP-24 (hinge) Z-Fish™, Cat. # 55346

Compatible Secondary Antibodies:

Catalog #	Goat anti-Rabbit IgG (H+L)
28176	Unconjugated
28176-AMCA	AMCA Labeled
28176-FAM	FAM Labeled
28176-FITC	FITC Labeled
28176-TAMRA	TAMRA Labeled
28176-H488	HiLyte Fluor™ 488 Labeled
28176-H555	HiLyte Fluor™ 555 Labeled
28176-H594	HiLyte Fluor™ 594 Labeled
28176-H647	HiLyte Fluor™ 647 Labeled
28176-H680	HiLyte Fluor™ 680 Labeled
28176-H750	HiLyte Fluor™ 750 Labeled
61056-H488	Highly Cross-adsorbed, HiLyte Fluor™ 488 Labeled
61056-H555	Highly Cross-adsorbed, HiLyte Fluor™ 555 Labeled
61056-H594	Highly Cross-adsorbed, HiLyte Fluor™ 594 Labeled
61056-H647	Highly Cross-adsorbed, HiLyte Fluor™ 647 Labeled
61056-H680	Highly Cross-adsorbed, HiLyte Fluor™ 680 Labeled
61056-H750	Highly Cross-adsorbed, HiLyte Fluor™ 750 Labeled
28177	Highly Cross-adsorbed, HRP Labeled
28178	Highly Cross-adsorbed, AP Labeled
28179	Highly Cross-adsorbed, Biotin Labeled

This product is for *in vitro* research use only.