Prod. no. V01413101 Product Description Mouse anti-medaka Vtg Monoclonal antibody, CK-4B3

General description

This product consists of affinity-purified mouse monoclonal antibodies against vitellogenin from Japanese medaka (*Oryzias latipes*). <u>Immunogen source</u>: Lipovitellin purified from eggs of female Japanese medaka (*Oryzias latipes*). <u>Subclass/isotype</u>: IgG,-kappa.

Specificity

The monoclonal antibody CK-4B3 binds with high affinity to vitellogenin and lipovitellin from Japanese medaka (*Oryzias latipes*). The antibody also cross-reacts to some degree with vitellogenin from other fish species including sheepshead minnow (*Cyprinodon variegatus*) and killifish (*Fundulus heteroclitus*). The degree of cross-reactivity differs between species and with the methods employed.

Applications

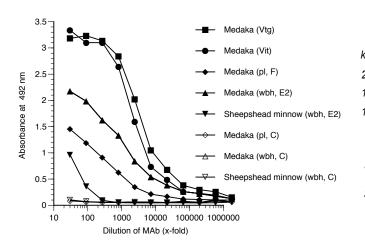
The monoclonal antibody CK-4B3 works well in both ELISA and western blot. Since assay conditions vary, the optimum dilution should be determined for each particular application. *Note*: The antibody is dissolved in a buffer containing BSA, and is therefore not recommended to use for coating.

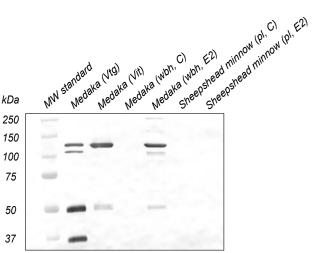
Normal dilution range:

ELISA: 1:100 - 1:1000 Western blot: 1:50 - 1:500

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ELISA

<u>Coating</u>: Purified vitellogenin (Vtg; 5 μ g/ml) and lipovitellin (Vit; 5 μ g/ml). Whole body homogenate (wbh; 1:1000) and plasma (pl; 1:1000) from female (F), 17 β -estradiol treated (E2) or control (C) fish. <u>Primary antibody</u>: CK-4B3

Western blot

<u>Samples</u>: Purified vitellogenin (Vtg; 1 µg/well) and lipovitellin (Vit; 1 µg/well). Whole body homogenate (wbh; 10 µg protein/well) and plasma (pl; 1:200, 10 µl/well) from 17β-estradiol treated (E2) or control (C) fish. <u>Primary antibody</u>: CK-4B3 diluted 1:100

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