Mouse anti-brown bullhead Vtg
Monoclonal antibody, ND-1D12

**General description**
This product consists of affinity-purified mouse monoclonal antibodies against vitellogenin from brown bullhead (*Ameiurus nebulosus*).

**Immunogen source:** Vitellogenin purified from brown bullhead (*Ameiurus nebulosus*), sheepshead minnow (*Cyprinodon variegatus*), bowfin (*Amia calva*), spotted gar (*Lepisosteus oculatus*), killifish (*Fundulus heteroclitus*), tilapia (*Oreochromis niloticus*), halibut (*Hippoglossus hippoglossus*), rainbow trout (*Oncorhynchus mykiss*), carp (*Cyprinio carpio*) or zebrafish (*Danio rerio*).

**Subclass/isotype:** IgG, kappa.

**Specificity**
The monoclonal antibody ND-1D12 binds with high affinity to vitellogenin from brown bullhead (*Ameiurus nebulosus*). The antibody does not cross-react with vitellogenin from sheepshead minnow (*Cyprinodon variegatus*), bowfin (*Amia calva*), spotted gar (*Lepisosteus oculatus*), killifish (*Fundulus heteroclitus*), tilapia (*Oreochromis niloticus*), halibut (*Hippoglossus hippoglossus*), rainbow trout (*Oncorhynchus mykiss*), carp (*Cyprinio carpio*) or zebrafish (*Danio rerio*).

The degree of cross-reactivity may differ between species and with the methods employed.

**Applications**
The monoclonal antibody ND-1D12 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:** 1:100 - 1:500

**ELISA**
- **Coating:** Plasma (pl; diluted 1:1000) from 17β-estradiol treated (E2) or control (C) fish. Purified vitellogenin (Vtg; 2 μg/ml).
- **Primary antibody:** ND-1D12

**Western blot**
- **Samples:** Purified vitellogenin (Vtg; 1 μg/well).
- **Primary antibody:** ND-1D12 diluted 1:200