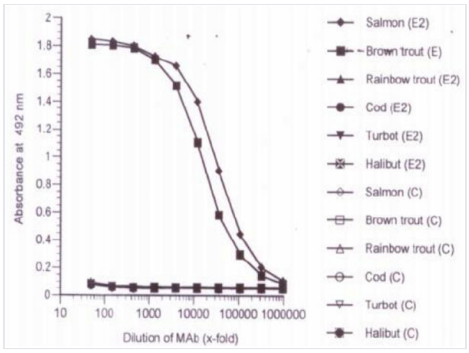
Vitellogenin (Vg) Antibody – Mouse Monoclonal

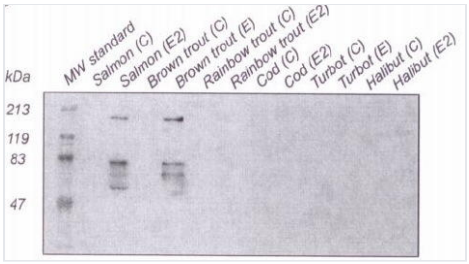
PRODUCT OVERVIEW

Product Name	Vitellogenin (Vg), Monoclonal Antibody
Full Product Name	Vitellogenin (salmon)
Product Gene Name	anti-Vg antibody
Product Synonym Names	Anti -Vitellogenin (salmon)
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	6D838
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.4, 1% BSA, 0.1% sodium azide.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Specificity	Recognizes Vitellogenin from Atlantic salmon. Crossreacts with Vitellogenin from brown trout (Salmo trutta) but not with Vitellogenin from rainbow trout (Oncorhynchus mykiss), Arctic char (Salvelinus alpinus), Atlantic cod (Gadus morhua), turbot (Scophthalmus maximus) or halibut (Hippoglossus hippoglossus).
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and add glycerol (40-50%). Freeze at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	201,048 Da
Chromosome Location	Chromosome: LG4; NC_007073.3 (4020743..4026919)
3D Structure	ModBase 3D Structure for Q868N5
Immunogen	Vitellogenin from plasma of 17-beta estradiol induced Atlantic salmon (Salmo salar).
Product Categories/Family for anti-Vg antibody	Antibodies; Abs to Fish
Applications Tested/Suitable for anti-Vg antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-Vg antibody	Suitable for use in ELISA, Western Blotting. Dilution: ELISA: 1:100-1:5000 Western Blot: 1:100-1:5000
Related Product Information for anti-Vg antibody	Vitellogenin (Vg) is an egg yolk precursor protein expressed in female fish, dormant in male fish and female insects, but in the presence of estrogenic endocrine disrupting chemicals (EDCs), males can express the Vg gene in a dose dependent manner. The use of Vg gene expression in male fish can be used as a molecular marker of exposure to estrogenic EDCs.
Other Notes	Small volumes of anti-Vg antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Vg purchase	MBS602374 is an antibody targeting Vg. Also known as Vitellogenin (salmon). Host: Mouse.



ELISA (EIA) of anti-Vg antibody

Results of ELISA.|Coating: Plasma (diluted 1:1000) from 17beta-estradiol treated (E2), sexually mature female (E) or control (C) fish. |Primary antibody: MBS602374.



Western Blot (WB) of anti-Vg antibody

Results of WB analysis:|Samples: Plasma (1:200 dilution; 7ul per lane) from 17beta-estradiol treated (E2), sexually mature female (E) or control (C) fish. |Primary antibody: MBS602374 diluted 1:3000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Vg. It may not necessarily be applicable to this product.

NCBI GI #	58585104
NCBI GeneID	406088
NCBI Accession #	NP_001011578.1
UniProt Primary Accession #	Q868N5
UniProt Related Accession #	Q868N5
GenBank Nucleotide #	NM_001011578.1
NCBI Official Full Name	vitellogenin
NCBI Official Synonym Full Names	vitellogenin<
NCBI Official Symbol	Vg
NCBI Official Synonym Symbols	GB13999
UniProt Protein Name	Vitellogenin
Protein Family	Vitellogenin
UniProt Gene Name	Vg
UniProt Entry Name	VIT_APIME
NCBI Protein Information	vitellogenin

UniProt Comments for Vg	Function: Precursor of the egg-yolk proteins that are sources of nutrients during embryonic development By similarity. Involved in the differentiation of honeybee larvae into queens. Ref.2 Subcellular location: Secreted. Tissue specificity: Accumulates in the hemolymph. Represents up to 70% of the queen's hemolymph proteins. During the first week of the worker adult life, when it becomes a nurse bee and performs brood-rearing tasks, the vitellogenin titer increases and may account for up to 40% of the total hemolymph proteins. Ref.1 Developmental stage: In queens, first expressed in mid-late pupal stage and a high production is maintained throughout adult life. In workers, observed in late pupal stage and expressed at low levels in adults. Levels can increase in some young workers if an egg-laying queen is missing to the colony. Also detected in drones, but in freshly molted adults and not in pupae. Ref.1 Induction: By MRJP1 during the differentiation of honeybee larvae into queens. Ref.2 Sequence similarities: Contains 1 vitellogenin domain.Contains 1 VWFD domain.
Research Articles on Vg	**1.** identify vitellogenin protein in the hypopharyngeal glands (brood food producing head glands) of nursing worker bees and in adjacent head fat body cells for the first time
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Online datasheet: https://www.mybiosource.com/monoclonal-antibody/vitellogenin/602374