ARG45869
anti-Zebrafish DUSP4 antibody

Package: 200 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes DUSP4
Tested Reactivity	Zfsh
Tested Application	IHC-P
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	DUSP4
Species	Zebrafish
Conjugation	Un-conjugated
Alternate Names	DUSP4; dual specificity phosphatase 4; MKP-2; MAP kinase phosphatase 2; MKP2; EC 3.1.3.16; HVH2; Dual specificity protein phosphatase 4; Dual specificity protein phosphatase hVH2; EC 3.1.3.48; Mitogen-activated protein kinase phosphatase 2; TYP

Application Instructions

Application table

Application	Dilution
IHC-P	2-5 µg/ml

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

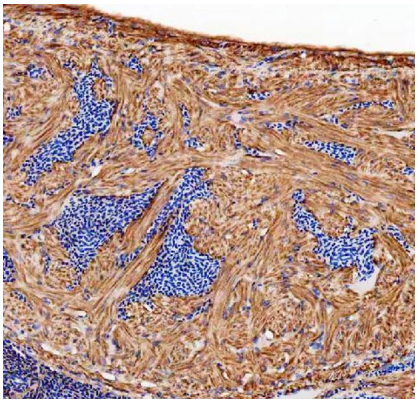
Properties

Form	Liquid
Purification	Affinity chromatography purified
Buffer	0.02M PBS, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% glycerol
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	DUSP4
Gene Full Name	dual specificity phosphatase 4
Background	The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. This gene product inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus. Two alternatively spliced transcript variants, encoding distinct isoforms, have been observed for this gene. In addition, multiple polyadenylation sites have been reported. [provided by RefSeq, Jul 2008]
Function	Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2. [UniProt]
Calculated Mw	43 kDa
PTM	Phosphorylation in the C-terminus by ERK1/2 inhibits proteasomal degradation and stabilizes the protein. [UniProt]
Cellular Localization	Nucleus. [UniProt]

Images



ARG45869 anti-Zebrafish DUSP4 antibody IHC-P image

Immunohistochemistry: Zebrafish heart stained with ARG45869 anti-Zebrafish DUSP4 antibody at 2 µg/ml dilution.