bs-3902R **[Primary Antibody]**

Dio3 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1735 **SWISS:** P55073

Target: Dio3

Immunogen: KLH conjugated synthetic peptide derived from human Dio3: 51-150/278.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Dio3 belongs to the iodothyronine deiodinase family. It has an essential role for regulation of thyroid hormone inactivation during embryological development in that it catalyzes the inactivation of thyroid hormone by inner ring deiodination of the prohormone thyroxine (T4) and the bioactive hormone 3,3',5-triiodothyronine (T3) to inactive metabolites, 3,3',5'-triiodothyronine (RT3) and 3,3'-diiodothyronine (T2), respectively. Dio3 may play a role in preventing premature exposure of developing fetal tissues to adult levels of thyroid hormones and has been linked to the development of consumptive hypothyroidism in both infants and adults.

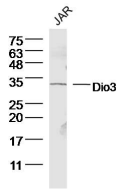
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Pig, Sheep, Cow, Dog)

Predicted MW.: 31 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: JAR Cell (Human) Lysate at 40 ug
Primary: Anti-Dio3 (bs-3902R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD
Observed band size: 31 kD

SELECTED CITATIONS

- **[IF=6.551]** Mei Ha. et al. PKCα mediated by the PI3K/Akt-FOXA1 cascade facilitates cypermethrin-induced hyperthyroidism. Sci Total Environ. 2021 Feb;757:143727 WB ;Rat. 33250241