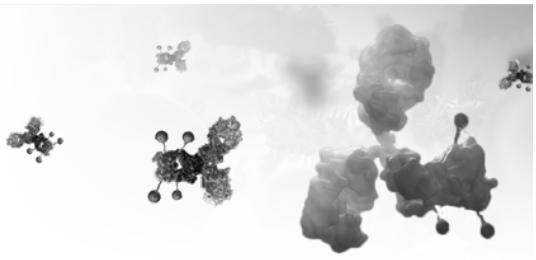

Chicken Caronte Fc Chimera (DAG2583)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant Chicken Caronte Fc Chimera was expressed in Mouse myeloma cell line, NS0. N-terminus Chicken Caronte (Asp16-Asn272)and (Glu18-Asn272) (Accession # NP_990154),and C-terminus Human IgG1 (Pro100-Lys330), Disulfide-linked homodimer
Antigen Description	Chicken Caronte, the ortholog of mammalian Cerberus, is a member of the Cerberus/DAN family of secreted glycoproteins. There are at least 5 Dan Domain (DAND)family members including DAN (DAND1), Gremlin/Drm (DAND2), PRDC (Protein Related to Dan and Cerberus; DAND3), Cerberus (DAND4), and Coco (DAND5). Caronte is expressed in the left paraxial mesoderm and is the molecule responsible for transducing left-sided positional information from the node to the periphery of the lateral plate mesoderm (LPM) during chicken embryonic development. Caronte functions as a BMP antagonist, inducing Nodal and downstream genes in the LPM by interfering with the repressive activity of bilaterally-produced BMPs. In addition, antagonism of BMPs by Caronte induces the expression of the Lefty gene in the midline. Caronte binds both BMP-4 and BMP-7 in immunoprecipitation experiments.
Species	Chicken
Purity	> 90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Conjugate	Unconjugated
Format	Lyophilized from a 0.2 μm filtered solution in PBS
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction	Chicken Caronte, the ortholog of mammalian Cerberus, is a member of the Cerberus/DAN family of secreted glycoproteins. Sclerostin is a secreted glycoprotein with a C-terminal cysteine

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
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	knot-like (CTCK) domain and sequence similarity to the DAN (differential screening-selected gene aberrative in neuroblastoma) family of bone morphogenetic protein (BMP) antagonists. Sclerostin is produced by the osteocyte and has anti-anabolic effects on bone formation.
Keywords	cerberus precursor; Caronte; Charon; Chicken Caronte protein; Chicken Caronte protein Fc; Caronte protein Fc; Chicken; Chicken Caronte protein & Human IgG1 protein

45-1 Ramsey Road, Shirley, NY 11967, USA
Email: info@creative-diagnostics.com
Tel: 1-631-624-4882 Fax: 1-631-938-8221
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