### Fish allergy ImmunoCAP<sup>™</sup> Specific IgE tests

# Thermo Fisher

The increase in global fish consumption has led to an increase in reports of fish-related allergies.<sup>1</sup> The route of exposure is not limited to ingestion, but also includes manual handling and inhalation, which are important factors to consider in occupational exposure.<sup>1</sup>



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Cod (f3) Salmon (f41)	Paravalbumin Gad c 1	Paravalbumin Cyp c 1	Interpreting results and management considerations*
+/	+	+/	<ul> <li>Primary allergen in fish, high probability of allergy to cod and closely related fish (white fish but also other fishes) due to cross-reactions<sup>1-7</sup></li> <li>Consider cod and closely related fish avoidance</li> </ul>
<b>+</b> /	<b>+</b> /	+	<ul> <li>High probability of allergy to carp and closely related fish (oily fish) due to cross-reactions<sup>1-7</sup></li> <li>Consider carp and closely related fish avoidance</li> </ul>
+	-	-	<ul> <li>If all components in the algorithm are negative and fish extracts are positive, the patient might be sensitized to an untested allergen like enolase and/or aldolase. As such, in the context of clinical history, exposure reduction may still be recommended.<sup>7</sup> If clinical suspicion persists, consider oral food challenge (OFC).<sup>1</sup></li> </ul>

\* Results should always be interpreted in the context of the clinical history.

#### As cross-reactivity between fish species can be limited, consider other available ImmunoCAP whole allergens available for testing:

Whole allergen	Code	Whole allergen	Code	Whole allergen	Cod
Anchovy	f313	Halibut	f303	Red snapper	f381
Catfish	f369	Herring	f205	Salmon	f41
Chub mackerel	f50	Jack mackerel, Scad	f60	Sardine (Pilchard)	f61
Fish (cod)	f3	Mackerel	f206	Sole	f337
Gulf flounder	f147	Megrim	f311	Swordfish	f312
Haddock	f42	Plaice	f254	Tilapia	f414
Hake	f307	Pollock	f413	Trout	f204

References: 1. Leung ASY et al. J Allergy Clin Immunol Pract. 2024 Mar;12(3):633-642.
e9. 2. Swoboda I, et al. Allergy 2002;57;(Suppl 73):79-84. 3. Bugajska-Schretter A, et al. J Allergy Clin Immunol 1998;101:67-74. 4. Lim DL-C, et al. Allergy Immunol 2008;19:399-407.
5. Bugajska-Schretter A, et al. Gut 2000;46(5):661-669. 6. Griesmeier U, et al. Allergy 2010;65:191-198. 7. Dramburg S, et al. Pediatr Allergy Immunol 2023;34(Suppl 28):e13854.

Official product names: ImmunoCAP Allergen f3, Fish (cod); ImmunoCAP Allergen f426, Allergen component Gad c1 Cod; ImmunoCAP Allergen f307, Hake; ImmunoCAP Allergen f205 Herring; ImmunoCAP Allergen f60 Jack mackerel; ImmunoCAP Allergen f206 Mackerel; Immuno CAP Allergen f311, Megrim; ImmunoCAP Allergen f254 Plaice; ImmunoCAP Allergen f413, Pollock; ImmunoCAP Allergen f311 Red snapper; ImmunoCAP Allergen f41 Salmon; ImmunoCAP Allergen f308 Sardine; ImmunoCAP Allergen f61 Sardine, Japanese Pilchard; ImmunoCAP Allergen f337 Sole; ImmunoCAP Allergen f312 Swordfish; ImmunoCAP Allergen f41 Tilapia; ImmunoCAP Allergen f406 Tout; ImmunoCAP Allergen f40 Tuna; ImmunoCAP Allergen f355, Allergen component r0pp c1 Carp; ImmunoCAP Allergen f34, Whitefish (Inconnu)

### Learn more at thermofisher.com/allergencomponents

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