ImmunoCAP[®] Cross-Reactivity Map

Te	ch			
ISAC 112	ImmunoCAP	SOURCE	COMPONENT	PROTEIN FAMILY OR FUNCTION

				P	os	si	ble	e (<i>Irc</i>)55	5-F	Rei	ac	tiv	vit	y				
Fruits	Vegetables	Nuts and seeds	Legumes	Cereals	Spices	Grass pollen	Tree pollen	Weed pollen	Latex	Milk	Meat	Fish	Egg	Seafood	Animals	Moulds	Mites	Insects	Venoms	Parasites

Important Allergen Families

FOOD ALLERGENS

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 | n Egg white
n Egg white | Gal d 1
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 | | | Proteins stable to heat and digestion causing reactions also to cooked foods | | | |
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n n n n n n				

 | | Gal d 2
 | Ovomucoid
Ovalbumin | | | | | | | | | | | | | | | |
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 | | | Often associated with systemic and more severe reactions in addition to OAS Associated with allergic reactions to fruit and vegetables especially in regions where peach and | | | |
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 | n Egg white
n Egg | Gal d 3
Gal d 4
 | Conalbumin/Ovotransferrin
Lysozyme | | | | | | | | | | | | | | | |
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 | | | closely related fruits are cultivated. | | | |
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 | Egg yolk/chicken Cow's milk | Gal d 5
Bos d 4
 | Livetin/Serum Albumin
Alpha-lactalbumin | | | | | | | | | | | | | | | |
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 | | Bos d 5
Bos d 6
 | Beta-lactoglobulin
Serum Albumin | | | | | | | | | | | | | | | |
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 | | | Storage protein | | | |
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| n n

 | n Cow's milk | Bos d 8
Bos d Lactoferrin
 | Casein
Transferrin | | | | | | | | | | | | | | | |
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 | | | Proteins stable to heat and digestion causing reactions also to cooked foods | | | |
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 | Parvalbumin |] [| | | | | | | | | | | | | | |
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 | | | Often associated with systemic and more severe reactions in addition to OAS Proteins in nuts and seeds serving as source material during growth of new plants | | | |
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| r r

 | r Carp
r Cod
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 | Parvalbumin
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| New n

 | Shrimp
Shrimp
Shrimp | Pen m 2
 | Arginine kinase
Sacroplasmic Calcium binding protein | | | | | | | | | | | | | | | |
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 | | | PR-10 protein, Bet v 1 homologue | | | |
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| New n

 | Cashew nut | Pen m 4
Ana o 2
 | Storage protein, 11S globulin | | | | | | | | | | | | | | | |
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 | | | Most PR-10 proteins are sensitive to heat and digestion and cooked foods are often tolerated Often associated with local symptoms such as oral allergy syndrome (OAS) | | | |
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 | r Brazil nut
Hazelnut | Ber e 1
Cor a 1.0401
 | Storage protein, 2S albumin
PR-10 | | •
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 | | | Associated with allergic reactions to pollens, fruits and vegetables | | | |
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 | r Hazelnut | Cor a 8
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 | Hazelnut
Walnut | Cor a 9
Jug r 1
 | Storage protein, 11S globulin
Storage protein, 2S albumin | | •
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 | | | Polcalcin (Calcium-binding proteins) | | | |
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| New N
New N

 | Walnut
Walnut | Jug r 2
Jug r 3
 | Storage protein, 7S globulin
LTP | | •
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 | | | A marker for cross-reactivity between pollen, which is not present in plant foods. | | | |
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 | Sesame | Ses i 1
 | Storage protein, 2S albumin | | | | | | | | | | | | | | | |
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 | r Peanut
r Peanut | Ara h 1
Ara h 2
 | Storage protein, 7S globulin
Storage protein, 2S albumin | | | | | | | | | | | | | | | |
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 | | | Profilin Proteins sensitive to heat and digestion and cooked foods are often tolerated | | | |
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| r r
New n

 | r Peanut
Peanut | Ara h 3
Ara h 6
 | Storage protein, 11S globulin
Storage protein, 2S albumin | | •
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 | | | Seldom associated with clinical symptoms but may cause local and even severe reactions in
some patients | | | |
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| r r
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 | r Peanut
r Peanut | Ara h 8
Ara h 9
 | PR-10
LTP | | | | | | | | | | | | | | | |
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 | | | Profilins are present in all pollen and plant foods | | | |
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 | r Soy bean | Gly m 4
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 | PR-10
Storage protein, Beta-conglycinin | | | | | | | | | | | | | | | |
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 | Soy bean | Gly m 6
 | Storage protein, Glycinin | | •
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| New n

 | Buckwheat
Wheat | Fag e 2
Tri a 14
 | Storage protein, 2S albumin | | | | | | | | | | | | | | | |
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 | | | A marker for sensitization to cross-reactive carbohydrate determinants Rarely causes allergic reactions, but may produce positive in-vitro test results to CCD-containing | | | |
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 | Wheat | Tri a 19
 | Omega-5 gliadin | | | | | | | | | | | | | | | |
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 | | | allergens from pollen, plant foods, insects and venoms. | | | |
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 | Wheat
Kiwi | Tri a aA_TI
Act d 1
 | Alpha-Amylase / Trypsin Inhibitor
Cysteine protease | | | | | | | | | | | | | | | |
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 | Kiwi
Kiwi
Kiwi | Act d 2
Act d 5
 | Thaumatin-like protein
Kiwellin | | | | | | | | | | | | | | | |
 | | | |
 | | | Lipocalin
• Stable proteins (and important allergens) in animals | | | |
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 | | | Stable proteins (and important allergens) in animals Allergen component displaying limited cross-reactivity between species. | | | |
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 | | | Proteins stable to heat and digestion causing reactions also to cooked foods. Often associated with systemic and more severe reactions in addition to OAS | | | |
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 | | AEROALLERGENS
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 | | | Actin-binding proteins in muscle fibres and a marker for cross-reactivity between crustaceans, | | | |
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 | Polcalcin
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 | | | Proteins fairly sensitive to heat and digestion. Proteins present in different biological fluids and solids in all animals e.g, cow's milk, blood, beef | | | |
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 | | | and epithelia.
• Cross-reactions between albumins from different mammalian species are well known, for example | | | |
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 | | | Gal d 1, Ovomucoid (egg white)
• IgE abs to ovomucoid are associated with persistent egg allergy and usually neither raw or cooked | | | |
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Can f 3
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Mus m 1
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Alt a 6
Asp f 1
Asp f 2
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OTHERS | Trypsin Inhibitor Profilin LTP Pectate lyase Pectin methylesterase Lipocalin Lipocalin Serum Albumin Arginine esterase/kallikrein Lipocalin Serum Albumin Uteroglobin Serum Albumin Lipocalin Serum Albumin Lipocalin Serum Albumin Lipocalin Serum Albumin Acidic glycoprotein Enolase Mitogillin family Fibrinogen Binding Proteins Peroxysomal protein Unknown Mn superoxide dismutase Alpha-amylase Mannitol dehydrogenase Group 5 mite allergen Cysteine protease NPC2 family Cockroach group 1 Aspartic protease Glutathione S-transferase Tropomyosin NPC2 family Phospholipase A2 Melittin Antigen 5
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Serum Albumin Acidic glycoprotein Enolase Mitogillin family Fibrinogen Binding Proteins Peroxysomal protein Unknown Mn superoxide dismutase Alpha-amylase Mannitol dehydrogenase Group 5 mite allergen Cysteine protease NPC2 family Cockroach group 1 Aspartic protease NPC2 family Cockroach group 1 Aspartic protease Glutathione S-transferase Tropomyosin Phospholipase A2 Melittin Antigen 5</td> <td></td> <td>Image: state s</td> <td></td> <td>•</td> <td>Image: style s</td> <td></td> <td></td> <td>•
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Alt a 6
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Asp f 3
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LTP (non-specific Lipid Transfer Protein, nsLTP)



www.thermoscientific.com/phadia